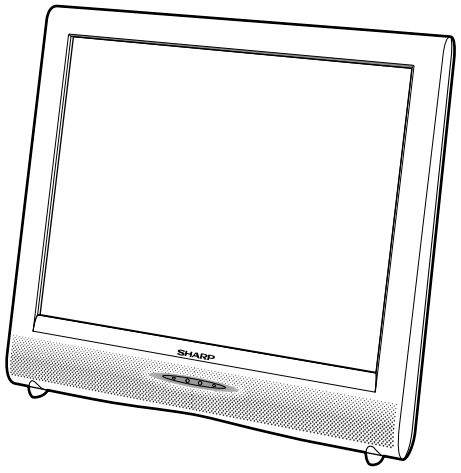
# SHARP SERVICE MANUAL

S04B1LC20SH1E




## LCD COLOUR TELEVISION

## MODEL LC-20SH1E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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SHARP CORPORATION

# IMPORTANT SERVICE SAFETY PRECAUTION

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

## WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

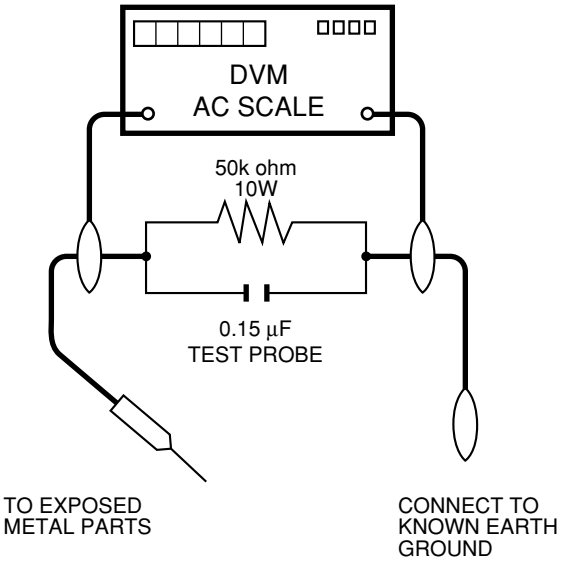
**CAUTION:** FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE F6700 (1.25A, 250V), F6701 (1.25A, 250V), F6702 (1.25A, 250V), F6703 (1.25A, 250V) F6704 (1.25A, 250V) AND F7701 (3.15A, 250V) FUSE.

## BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

**Before returning the receiver to the user, perform the following safety checks:**

1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 220~240 volt AC outlet.
- Using two clip leads, connect a 50k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.
  All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)
  Any reading of 0.75V peak (this corresponds to 0.5 mA. peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.




## SAFETY NOTICE

Many electrical and mechanical parts in LCD television have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by " ⚠ " and shaded areas in the ***Replacement Parts Lists and Schematic Diagrams.***
For continued protection, replacement parts must be identical to those used in the original circuit.
The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

# Precautions for using lead-free solder

**1 Employing lead-free solder**

"MAIN PWB" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

Indicates lead-free solder of tin, silver and copper.

**2 Using lead-free wire solder**

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

**3 Soldering**

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

| Part No. | ★ | Description | | Code |
|---|---|---|---|---|
| ZHNDAi123250E | J | ϕ0.3mm | 250g(1roll) | BL |
| ZHNDAi126500E | J | ϕ0.6mm | 500g(1roll) | BK |
| ZHNDAi12801KE | J | ϕ1.0mm | 1kg(1roll) | BM |

# Precautions on removing the Sub PWB

- **CAUTION**

  Before taking out and servicing the Sub unit, be sure to discharge the C7703 electrolytic capacitor. Otherwise you may get an electric shock by the capacitor's charging voltage.

# SPECIFICATIONS

| Items \ Model | | LC-20SH1E |
|---|---|---|
| LCD panel | | 20" Advanced Super View& BLACK TFT LCD |
| Number of dots | | 921,600 dots |
| Video colour system | | PAL/SECAM/NTSC |
| TV | TV-Standard (CCIR) | B/G, I, D/K, L/L' |
| | TV-Tuning System | Auto preset 200 ch. |
| | STEREO/BILINGUAL | NICAM, A2 stereo |
| | AUTO PRESET | YES |
| | CATV | ~Hyper Band |
| Brightness | | 430 cd/$m^2$ |
| Viewing angles | | H: 170° V: 170° |
| Audio amplifier | | 2.1 W × 2 |
| Speakers | | 11 cm × 4 cm 2 pcs. |
| Terminals | EXT1 | 21-pin Euro-SCART |
| | EXT2 | S-VIDEO, VIDEO, AUDIO |
| | OUT | AUDIO |
| | Antenna | DIN |
| | Headphones | 3.5 mm ø jack (side) |
| OSD language | | English/Spanish/German/French/Italian/Swedish/Dutch/Russian/Portuguese/ Turkish/Greek/Finnish/Polish |
| Power requirement | | AC 220 V–240 V, 50/60 Hz |
| Power consumption | | 74 W (1.0 W Standby) AC 220 V–240 V |
| Weight (approx.) | | 6.3 kg, w/o accessories |

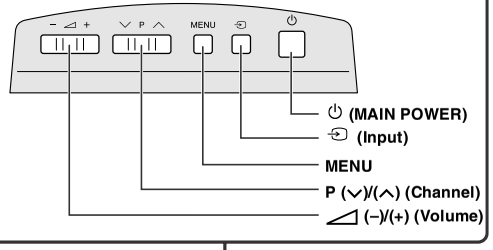
■ As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

# Part Names of the Main Unit

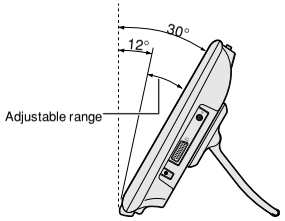
The examples used throughout this manual are based on the LC-20SH1E model.

## Controls

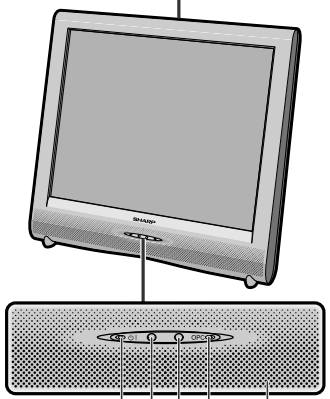
**Upper control panel**




■ How to adjust the angle




The screen angle can be tilted backwards between 12 and 30 degrees. (It cannot be set to vertical.) When changing the angle, make sure to hold the stand and adjust the screen to the best viewable angle.



**Speaker**

**OPC (Optical Picture Control) indicator**
The OPC indicator lights up green when the "Backlight" is set to "Auto (OPC)".

**Remote sensor**

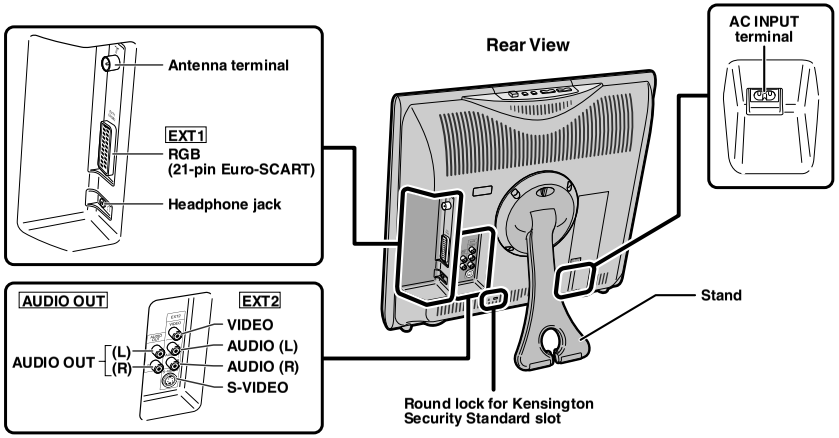
**OPC sensor**

**STANDBY/ON indicator**
STANDBY/ON indicator lights up green when the power is on, and red when in the standby mode (the indicator will not light when the main power is off).

NOTE

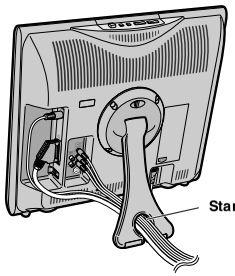
- **(Input)**, **P (∨)/(∧)(Channel)**, **(–)/(+) (Volume)** and **MENU** on the control panel of the main unit have the same functions as the same buttons on the remote control. Fundamentally, this operation manual provides a description based on operation using the remote control.

## Terminals




### How to Fix the Cables

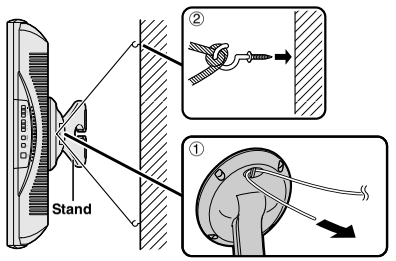
Pull the cables connected to each terminal. Insert the cables into the stand hole and fix the cables.



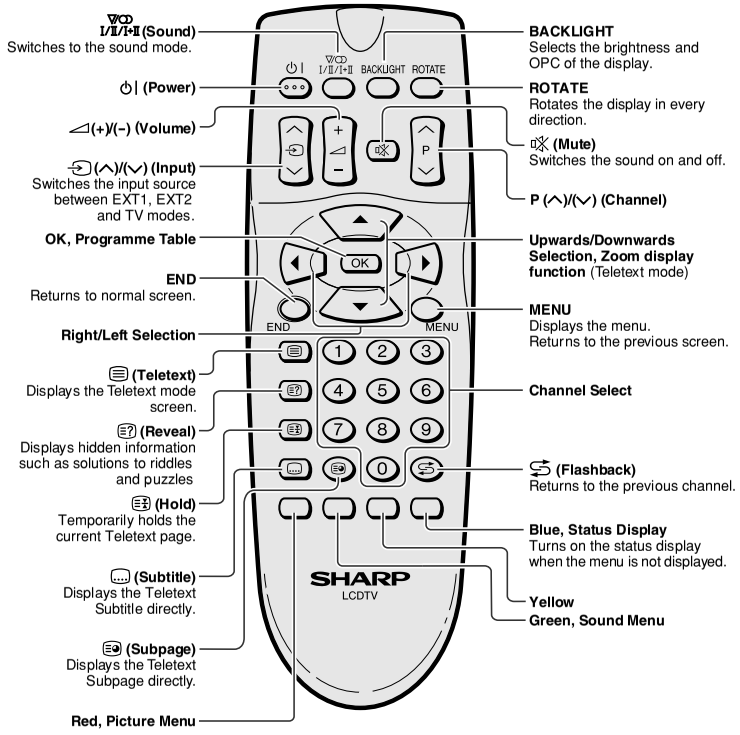

### How to Prevent the LCD TV Set from Falling Over

To prevent the LCD TV set from falling over in case of earthquakes and so on, strap it onto the wall by threading one end of the string through the loop of the stand (①) and fastening the LCD TV set with the string attached to the hook on the wall or the post, etc. (②).
(An example of strapping the LCD TV set onto the wall is shown on the right.)

- The string and hook are commercially available.



## Part Names of the Remote Control

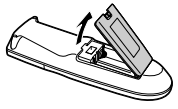



## Preparation

### Installing Batteries in the Remote Control

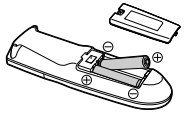
Before using the LCD TV set for the first time, install the two "AA" size batteries (supplied) in the remote control. When the batteries become depleted and the remote control fails to operate, replace the batteries with new "AA" size batteries.

**1** Open the battery cover.



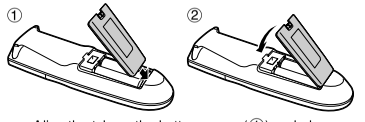
- Detach the cover while pressing the (▼) part.

**2** Insert two "AA" size batteries.



- Place batteries with their terminals corresponding to the (+) and (–) indications in the battery compartment.

**3** Close the battery cover.




- Align the tab on the battery cover (①) and place it while pressing the tab (②) to close it.

**⚠ Caution!**

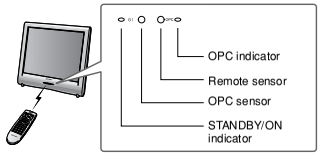
**Precautions regarding batteries**

Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.

- Place batteries with their terminals corresponding to the (+) and (–) indications.
- Different types of batteries have different characteristics. Do not mix batteries of different types.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.
- Remove batteries as soon as they are depleted. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe it off with a cloth.
- The batteries supplied with the LCD TV set may have a shorter operating time due to storage conditions.
- If the remote control is not to be used for an extended period of time, remove the batteries from the remote control.

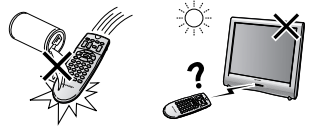
### Using the Remote Control

Use the remote control by pointing it towards the remote sensor window of the main unit. Objects between the remote control and sensor window may prevent proper operation.



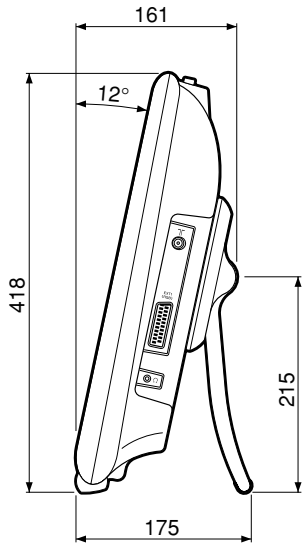

**Cautions regarding use of the remote control**

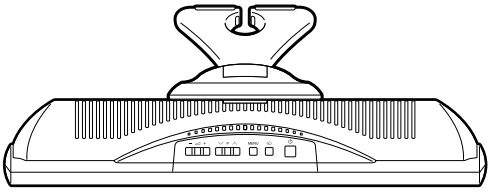
- Do not apply shock to the remote control. In addition, do not expose the remote control to liquids, and do not place it in an area with high humidity.
- Do not install or place the remote control under direct sunlight. The heat may cause deformation of the unit.
- The remote control may not work properly if the remote sensor window is under direct sunlight or strong lighting. In such a case, change the angle of the lighting or main unit, or operate the remote control closer to the remote sensor window.

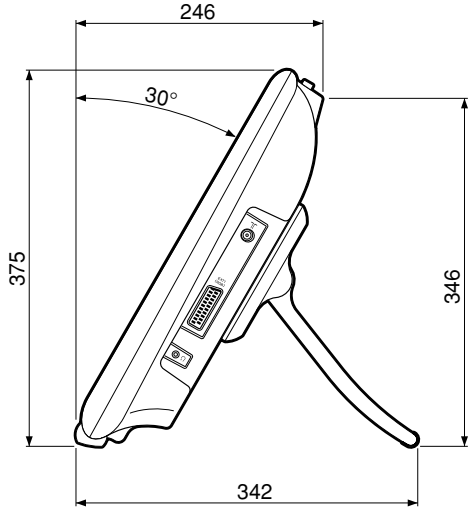


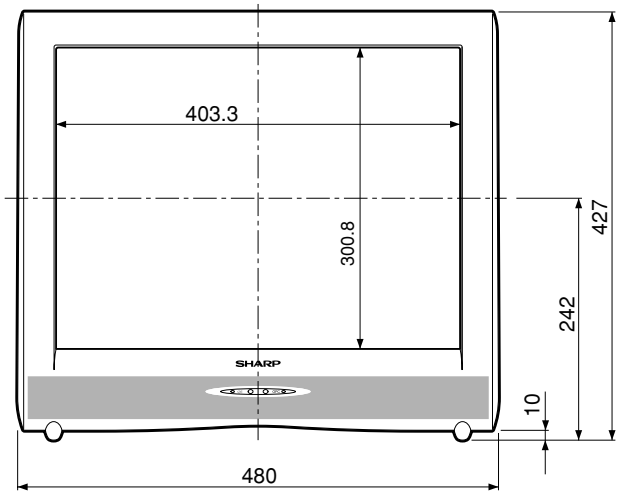
# DIMENSIONS

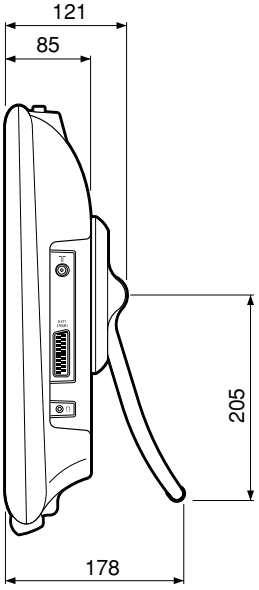
Unit: mm

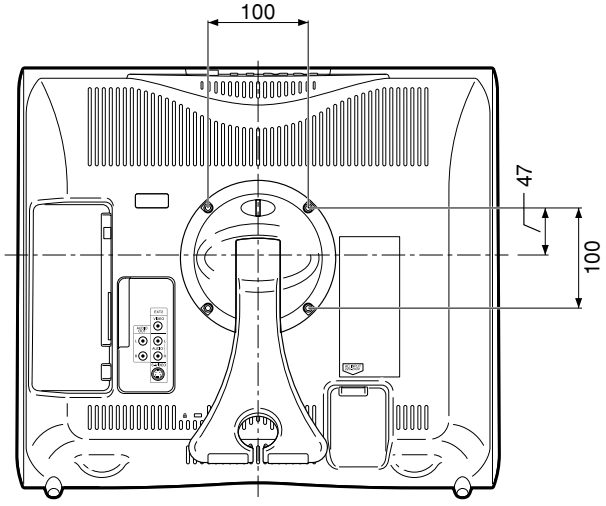




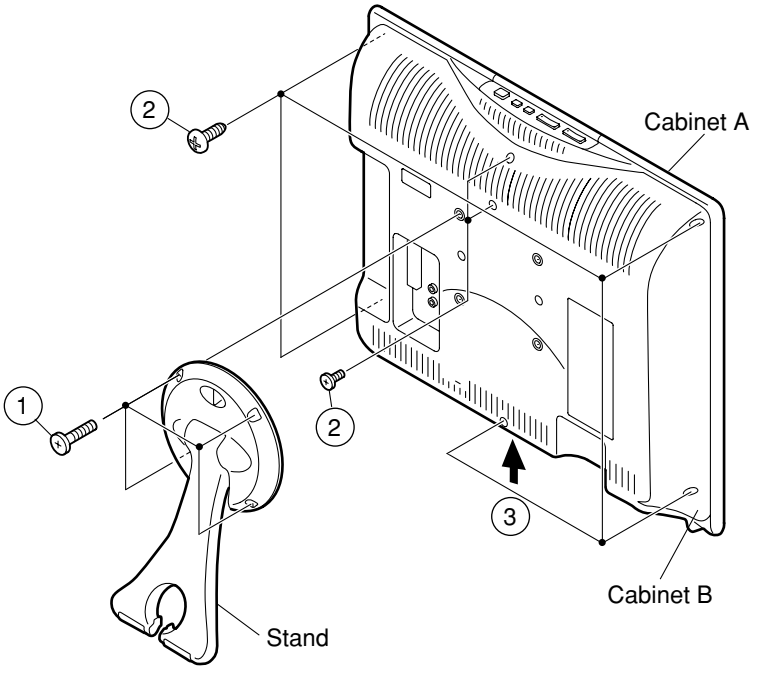



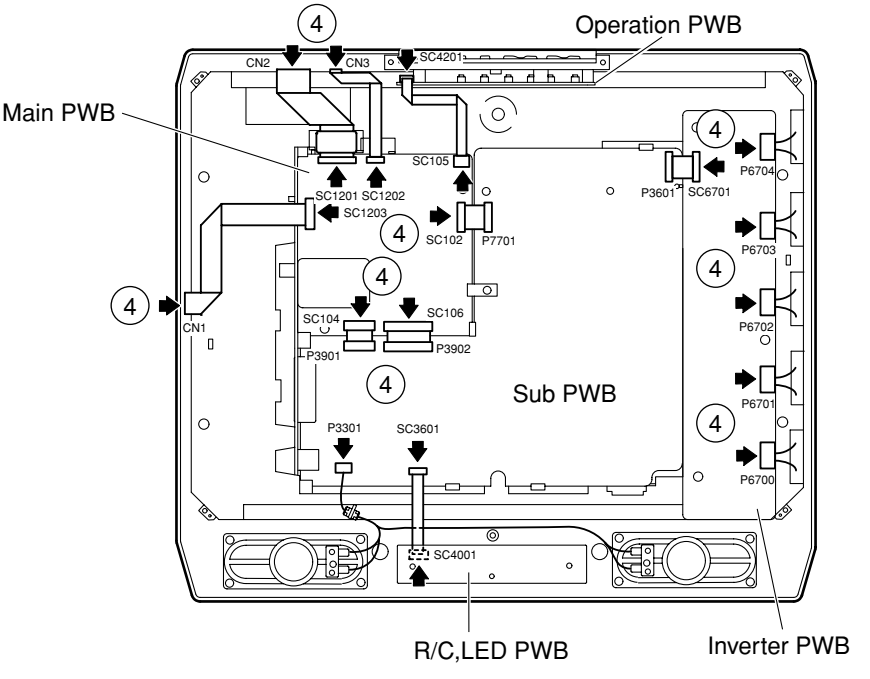



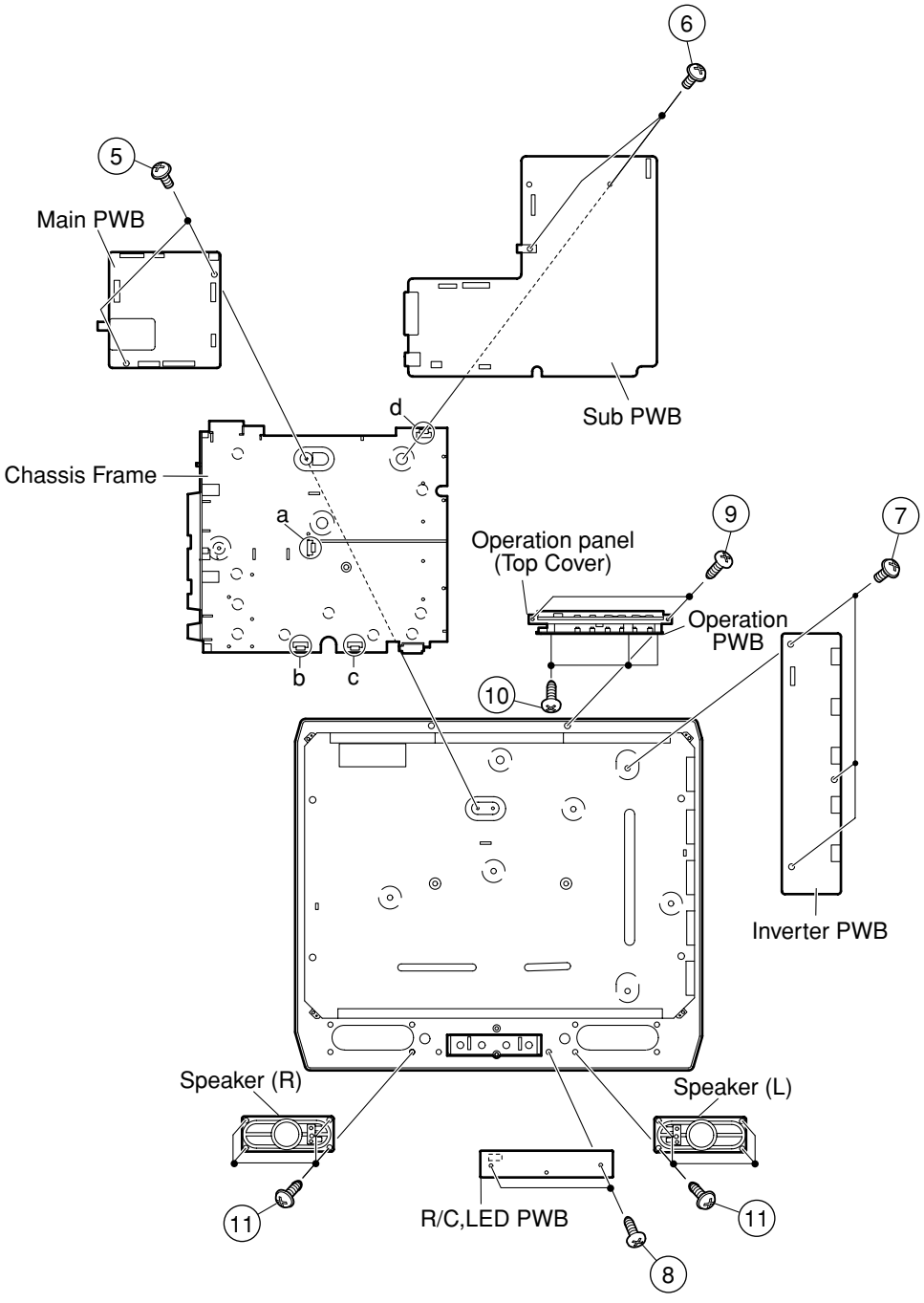
# REMOVING OF MAJOR PARTS

1. Remove the stand fixing screws (4 pcs.).
2. Remove the cabinet B fixing screws (7 pcs.).
3. Remove the cabinet B after opening from the direction of an arrow.
4. Detach the connector from each PWB.



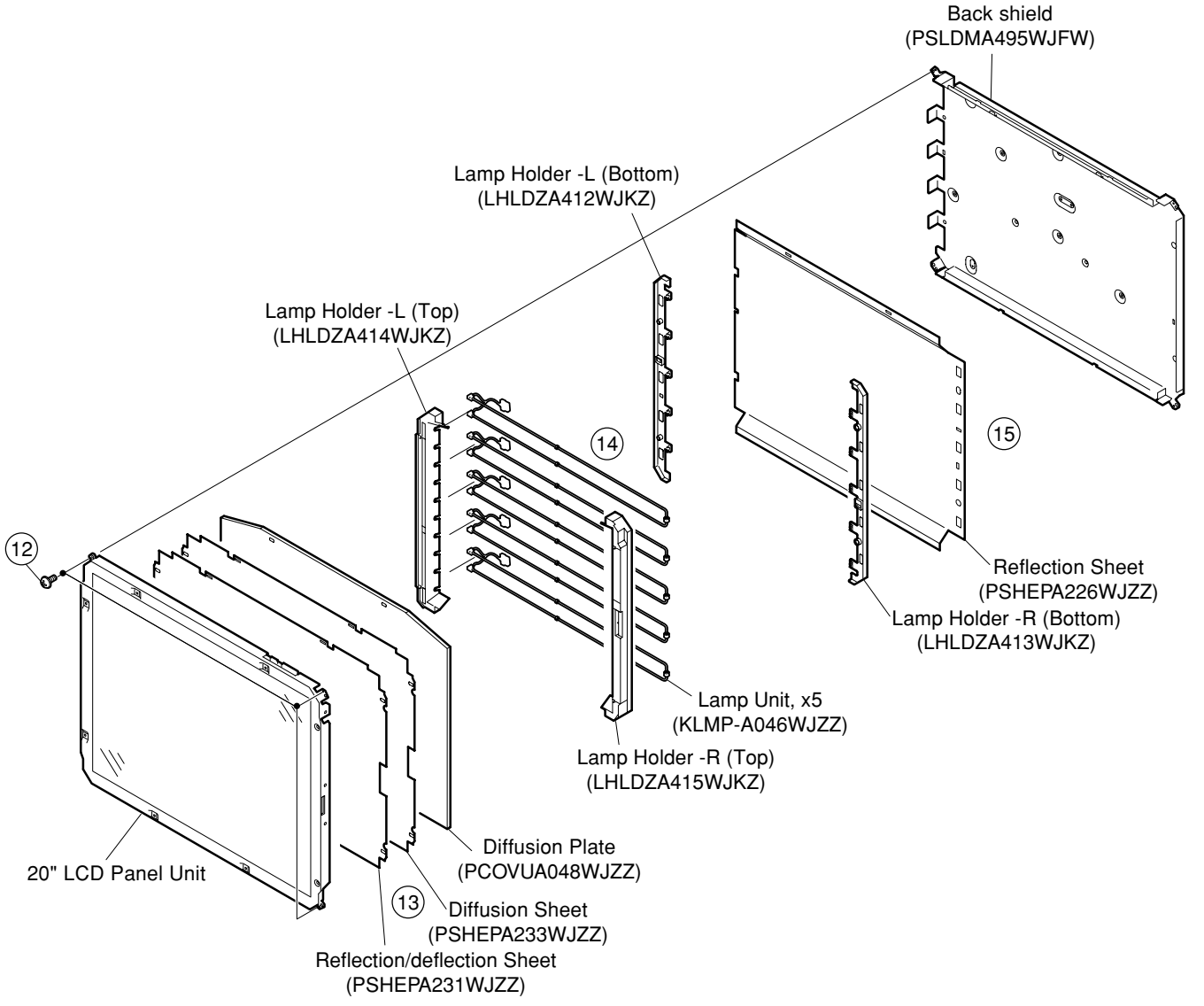



5. Remove the 2 lock screws from the main PWB and undo the hooks a. Detach the chassis frame, together with its terminals, from the main PWB.
6. Remove the 2 lock screws from the sub PWB and undo the hooks b, c and d. Detach the chassis frame together with its terminals, from the sub PWB.
7. Remove the 3 lock screws from the inverter PWB and take out the inverter PWB.
8. Remove the 2 lock screws from the R/C, LED PWB and take out the R/C, LED PWB.
9. Remove the 2 lock screws from the operation panel (top cover), and detach the operation panel (top cover).
10. Remove the 3 lock screws from the operation PWB, and detach the operation PWB.
11. Remove the 4 lock screws each from the right and left speakers and take out both the speakers.

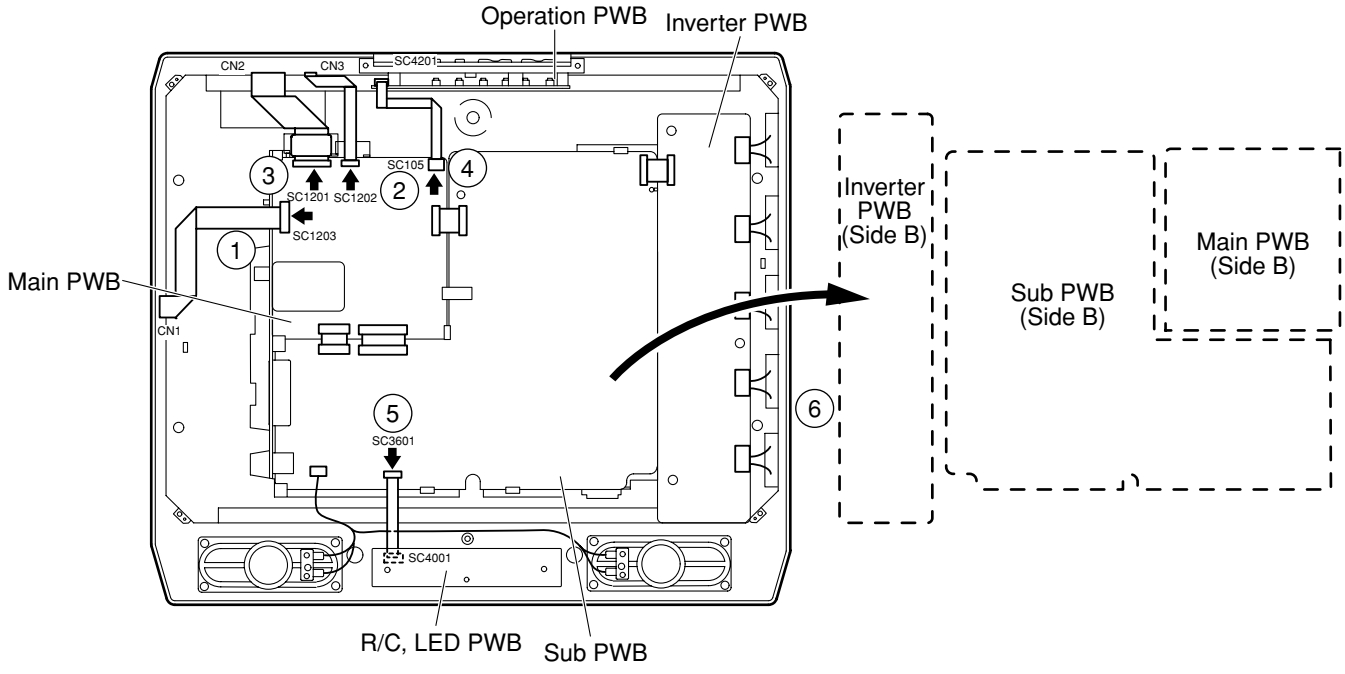


- Precautions in handling the LCD panels
  1. Work in a clean room (with humidities below 50%).
  2. Be sure to wear an anti-static armband.
  3. Handle the panels on an electro-conductive mat.
  4. Be careful not to fall, shake and shock the panels.

12. Remove the 3 lock screws from the LCD panel and detach the LCD panel.
13. Remove the reflection/deflection sheet, diffusion sheet and diffusion plate.
14. Detach the lamp holders -R (top), -L (top) and -R (bottom), -L (bottom) from the lamp unit.
15. Detach the reflection sheet from the back shield.



- **Precautions at the time of the side B(back) service of main, sub and Inverter unit.**
  1. Remove only SC1203 of the FFC for connection between Main unit (SC1203) and LCD panel, and connect the extended cable (QCNW-A553WJZZ) for service.
  2. Remove only SC1202 of the FFC for connection between Main unit (SC1202) and LCD panel, and connect the extended cable (QCNW-B556WJZZ) for service.
  3. Remove only SC1201 of the FFC for connection between Main unit (SC1201) and LCD panel, and connect the extended cable (QCNW-A555WJZZ) for service.
  4. Remove only SC105 of the FFC for connection between Main unit (SC105) and Operation unit (SC4201), and connect the extended cable (QCNW-D444WJQZ) for service.
  5. Remove only SC3601 of the FFC for connection between Sub unit (SC3601) and R/C, LED unit (SC4001), and connect the extended cable (QCNW-D445WJQZ) for service.
  6. Remove the PWB unit fixing screws (main unit : 2pcs, sub unit : 2pcs., inverter unit : 3pcs.)




| Step | Part No. | Description |
|---|---|---|
| 1 | QCNW-A553WJZZ | Extension Cable 30-pin Main (SC1203)-LCD Panel |
| 2 | QCNW-A556WJZZ | Extension Cable 50-pin Main (SC1202)-LCD panel |
| 3 | QCNW-A555WJZZ | Extension Cable 20-pin Main (SC1201)-LCD panel |
| 4 | QCNW-D444WJQZ | Extension Cable 5-pin Operation (SC4201)-Main (SC105) |
| 5 | QCNW-D445WJQZ | Extension Cable 8-pin R/C, LED (SC4001)-Sub (SC3601) |

# ADJUSTING PROCEDURE OF EACH SECTION

The best adjustment is made before shipping. If any position deviation is found or after part replacement is performed, adjust as follows.

## Preparation for adjustments

Use a stable AC power source.
LC-20SH1E AC Power : 230V

## 1. Adjusting procedure

Complete Set → Power ON → Enter Adjustment Process Mode (By Remote Control) → RF AGC adjustment → DCXO adjustment → Common Bias adjustment → White Balance adjustment

## 2. Entering the adjustment process mode

- After power on, press the adjustment process mode key on the service remote control.
- Switching on the TV set, holding pushed the "Input" and "Volume (–)" Key at once, the TV set enters in the "K" mode.
  In this condition, pushing "Volume (–)" and "P (∨)" Key, the adjust mode appears.

## 3. Key operation in the adjustment process mode

- Use the "UP" or "DOWN" cursor key to select the adjustment mode item.
- Use the "LEFT" or "RIGHT" cursor key to change the data.

## 4. Initialization

When the EEPROM (IC101) has been replaced or when the EEPROM has been initialized, readjust the each adjust the each adjustments.

4-1. When the EEPROM has been replaced:

1) Plug in the AC cord to an AC power outlet and turn on the power.
2) When the setting is finished, the LED turns from red to green. In about 15 seconds, the initialization is completed.

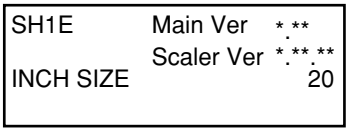
4-2. When initializing the EEPROM data and making readjustments:

1) Enter the Adjustment Process mode.
2) Select the INIT TV item and press the "RIGHT" cursor key to enable the item.
3) Unplug the power cable and plug it again in the AC power outlet. Turn on the power.
4) When the setting is finished, the LED turns from red to green. In about 5 seconds, the initialization is completed.

<Note>
When the INIT TV item has been enabled in the adjustment process, be sure to unplug the power cable and plug it in again. Then start adjustments. Otherwise the readjusted data cannot be put in memory.

4-3. Setting the screen size (inches)

1) Enter the Adjustment Process mode.
2) Check the model number.
3) Hold down the "LEFT" or "RIGHT" cursor key longer than 2 seconds, and select a screen size (LC-20SH1E).



# 5. Adjustment

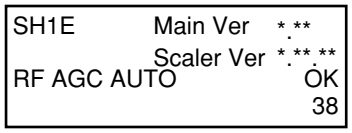
5-1. RF AGC adjustment

1) Feed the colour bar signal.

2) In Adjustment Mode, select the RF AGC AUTO ("OFF") and press the " RIGHT" cursor key to start the adjustment.

3) Automatic adjustment is complete when it display "OK" is displayed.

4) RF AGC data will be in the range of 0-63. If "NOK" is displayed, adjustment failed.




RF AGC Auto adjustment complete

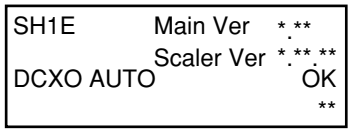
RF AGC data (Example)

5-2. DCXO adjustment

1) Feed the colour bar signal.

2) In Adjustment Mode, select the DCXO AUTO ("OFF") and press " RIGHT" cursor key to start the adjustment.

3) Automatic adjustment is complete when "OK" is displayed. If "NOK" is displayed, adjustment failed.




DCXO Auto adjustment complete

DCXO data

5-3. Common bias adjustment

1) Select the EXT-Video input and without signal.

2) In Adjustment Mode, select the COM BIAS and vary the data until the contrast becomes the sharpest. (Black looks most sinking.)

5-4. White balance adjustment

[A] White balance pre-adjustment

1) Feed the 100% white signal.

2) In Adjustment Mode, select the AWBSD ("OFF") and press the " RIGHT" cursor key to start the adjustment.

3) Automatic adjustment is complete when "OK" is displayed.

[B] White balance adjustment

Adjust "R CUTOFF2", "G CUTOFF2", "B CUTOFF2", "WB R GAIN", "WB G GAIN" and "WB B GAIN" in the adjustment processing to obtain the same colour as the standard set.

# 6. Factory setting

6-1. Make the factory setting using the adjustment remote control.

| Model | Key Name | Remote Control Code | | | | OSD Language Setting | |
|---|---|---|---|---|---|---|---|
| A3IK20SH1E | Shipment Setting 1 | 1000 | 0011 | 1111 | 110 | German | (00001 FEh) |
| A3IK20SH1K | Shipment Setting 2 | 1000 | 0000 | 1010 | 110 | English | (00002 A8h) |
| A3IK20SH1R | Shipment Setting 3 | 1000 | 0110 | 1011 | 110 | Russian | (00003 EBh) |
| A3IK20SH1F | Shipment Setting 4 | 1000 | 0100 | 1011 | 110 | French | (00004 E9h) |
| A3IK20SH1I | Shipment Setting 6 | 1000 | 0000 | 1011 | 110 | Italian | (00005 E8h) |

6-2. Different factory settings.

| Model | Language | Country | Color System | Sound System |
|---|---|---|---|---|
| A3IK20SH1E | German | Germany | PAL | B/G |
| A3IK20SH1K | English | UK | PAL | I |
| A3IK20SH1R | Russian | Russia | SECAM | D/K |
| A3IK20SH1F | French | France | SECAM | L/L' |
| A3IK20SH1I | Italian | Italy | PAL | B/G |

# 7. Lamp error detection

7-1. Functional description

This LCD colour television has a function (lamp error detection) to be turned OFF automatically for safety when the lamp or lamp circuit is abnormal.

If the lamp or lamp circuit is abnormal, or some other errors happen, and the lamp error detection is executed, the followings occur.

① The main unit of television is turned OFF 5 seconds after it is turned ON. (The power LED on the front side of TV turns from green to red.)

② If the situation ① happens 5 times sequentially, television can not be turned ON. (The power LED remains red.)

7-2. Countermeasures

7-2-1. Check when turning OFF the lamp error detection

If the power has been turned off 5 times because of lamp error, hold down the unit's "INPUT" and "Volume (–)" kye simultaneously and turn on the unit's power switch. The TV set gets back on power in the "K" mode.

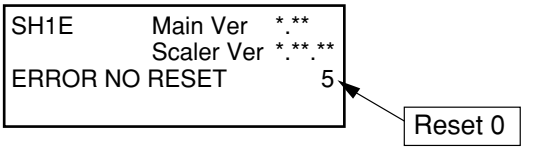
In this state, press the unit's "Volume (–)" and "P (∨)" key simultaneously. The Adjustment Process mode shows up.

This enables the operation check to detect errors in the lamp or lamp circuit.

Check whether "ERROR NO RESET" of the adjustment process is 1 or more. If it is 1 or more, it indicates the lamp error detection was executed.

7-2-2. Resetting of the lamp error count

After confirming that the lamp or lamp circuit is normal, reset the lamp error count. Select "ERROR NO RESET" of the adjustment process and set the number to 0 using the "LEFT" or "RIGHT" cursor key.



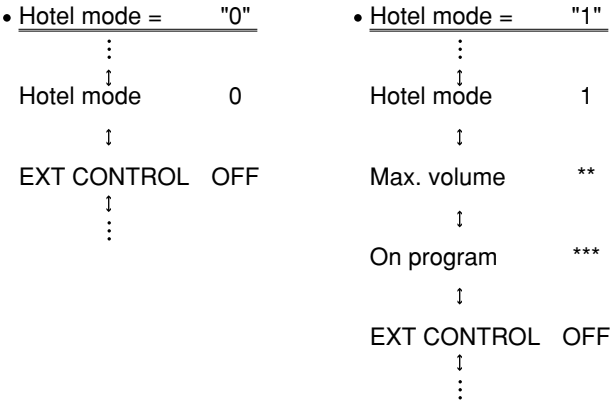

Afterwards, perform the operation check to confirm that the lamp error detection does not function.

# 8. Hotel mode

8-1. How to enter the Hotel mode.

1) Turn on the power and enter the Adjustment Process mode.
2) Using the "UP" or "DOWN" cursor key on the remote controller, select the Hotel mode.
3) Using the "RIGHT" cursor key on the remote controller, change the setting from "0" to "1". Now the Hotel mode shows up.

Adjustment Process menu




4) Using the "UP" or "DOWN" cursor key on the remote controller, select "Max. volume" and "On program". Make the setting with the "LEFT" or "RIGHT" cursor key.
5) Finally quit the Adjustment Process mode and turn off the power. The TV set comes on in the Hotel mode after the next switch-on.

8-2. Hotel mode settings

1) Max. volume (0-60)
   You can set the maximum volume at your desired level.
2) On program (0-199)
   You can select a desired channel when switching on the TV set.

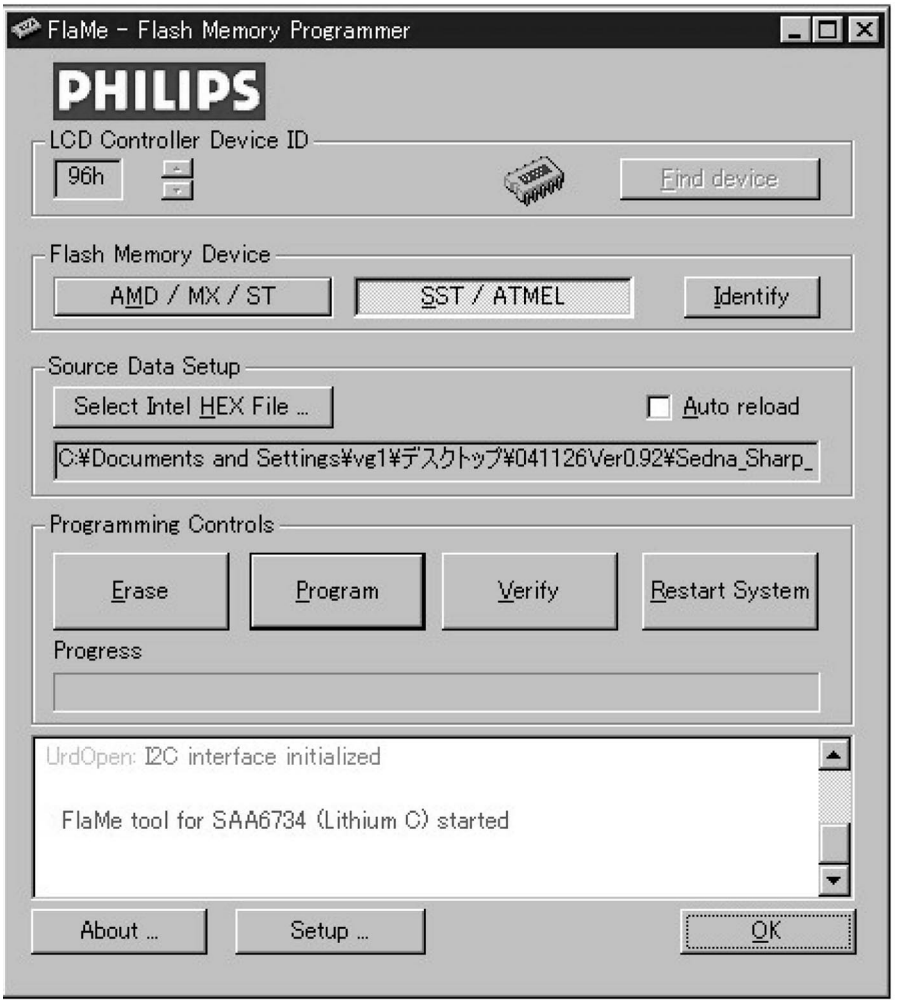
8-3. Canceling the Hotel mode

1) Turn on the power and enter the Adjustment Process mode.
2) Using the "UP" or "DOWN" cursor key, select the Hotel mode.
3) Using the "LEFT" cursor key, change the setting from "1" to "0".
4) Finally quit the Adjustment Process mode and turn off the power. The TV set comes on out of the Hotel mode after the next switch-on.

# 9. Software Loading

1) Upgrading the software or after replacement of IC151, IC501 or Main PWB, make sure to upload the processors with updated software.
2) Please use the dedicated Interface JIG (JIGINF-001) and supplied programs for upgrading the software.
3) This model employs two software;
   • SCALER microprocessor software
   • MAIN microprocessor software
   Please upload the SCALER microprocessor software first follow by MAIN microprocessor software.

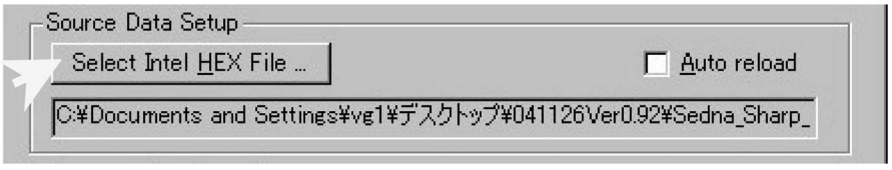
1. SCALER microprocessor
   1) Set Interface JIG switch to position "SCALER".
   2) Power ON the set and plug Interface JIG connector to P2002.
   3) Run the ISP_Tool.exe program.



4) First click [SST / ATMEL] and then follow by [Identify] to identify the flash memory.

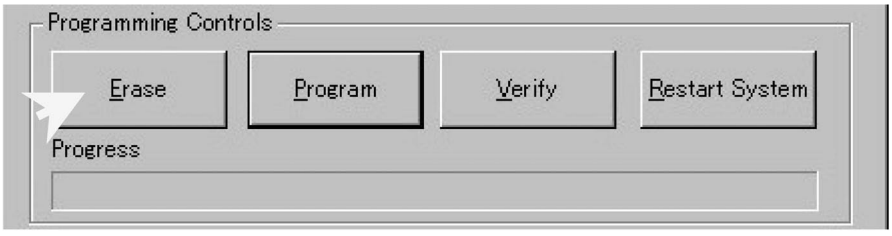
Confirm the item below in Comment Window.

5) Click [Select Intel HEX File …] to open the source files. The source file name are "Sedna_Sharp****.hex"

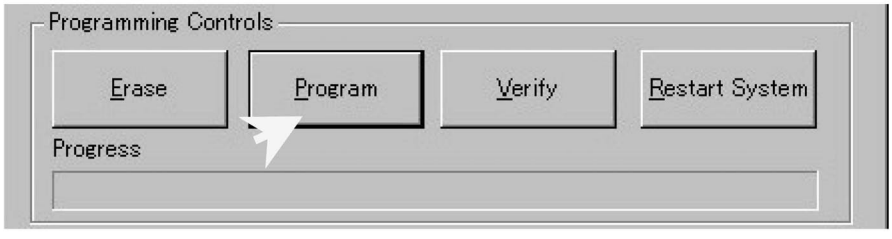



Confirm the source file is loaded correctly.

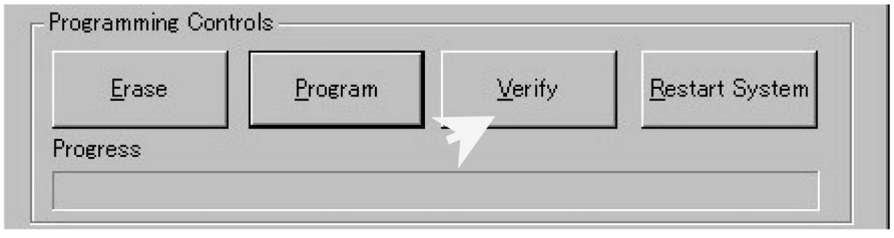
6) Next click the [Erase] to erase all the data in the flash memory. Confirm the erase process is complete without any error.



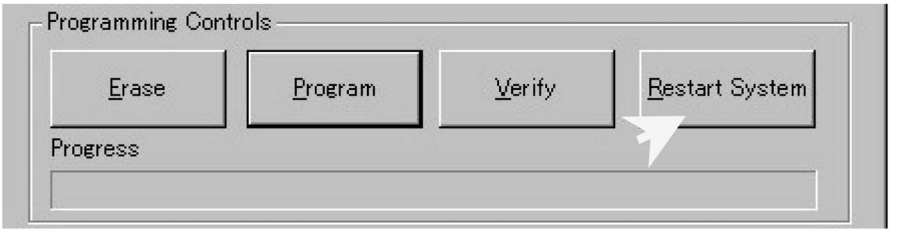

7) Then click [Program] to start uploading the source file into the flash memory. After uploading process is complete, confirm there are no error.




8) Click [Verify] to verify the uploaded data and confirm there are no error.



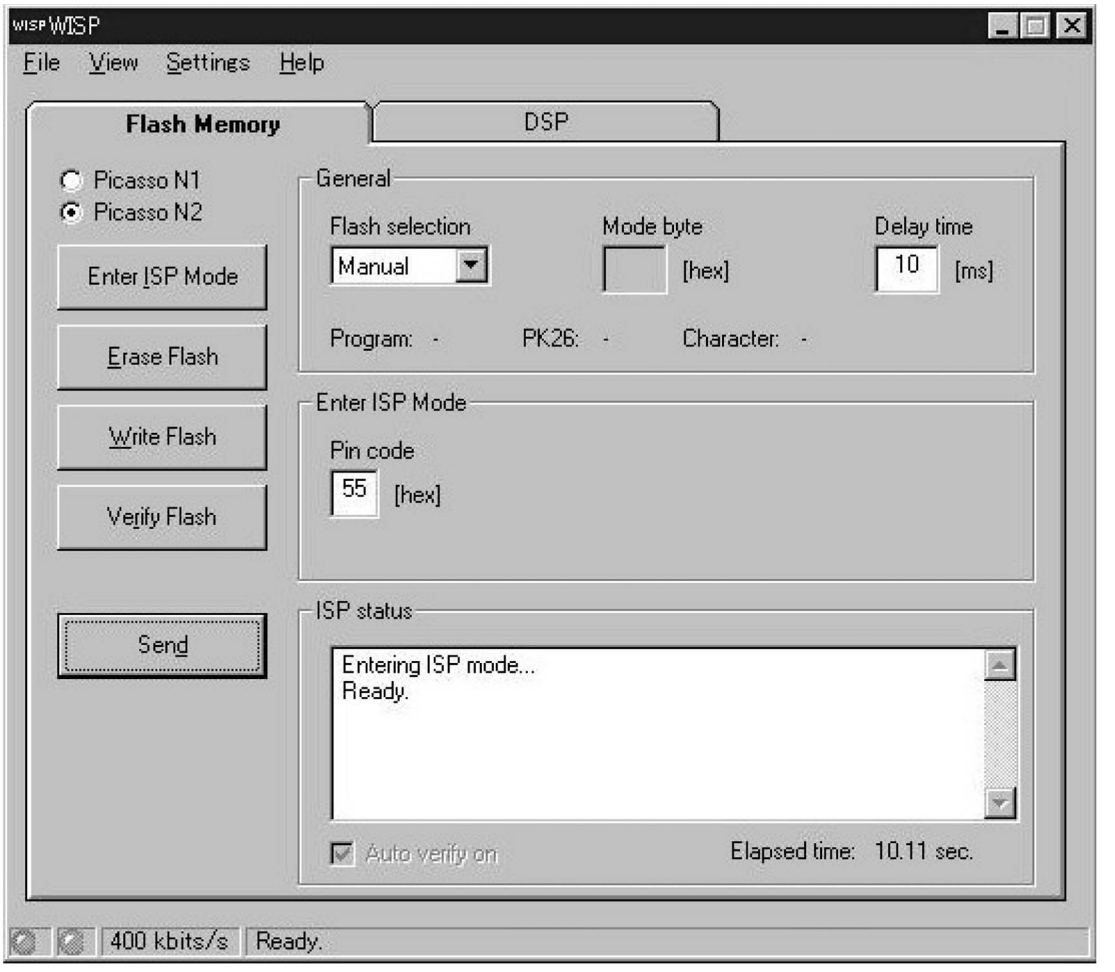
9) Finally click [Restart System] to initialize. Confirm "Reset done" in Comment Window.



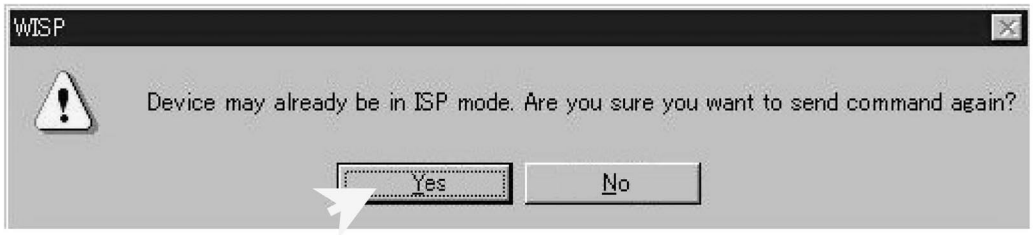

10) Power OFF the set by unplugging AC Cord, remove the JIG from the plug and wait for 1 minute before power ON again.

Notes: If any error occur during any process, power OFF the set and repeat the all the process again. If these still fail, please erase Main Software and repeat the whole process again. To erase Main software, please refer to MAIN microprocessor step No. 1) to 5) only.

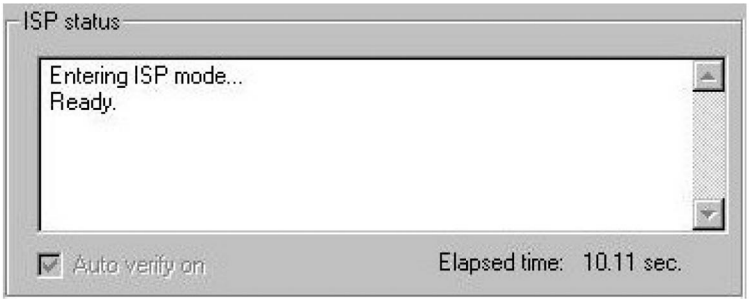
2. MAIN microprocessor
   1) Set JIG switch to position "LOC".
   2) Power ON the set and plug Interface JIG connector to P2002.
   3) Run the WISP.exe program.



4) First click [Enter ISP Mode] then click [Send]. If the following window appear, click [Yes]

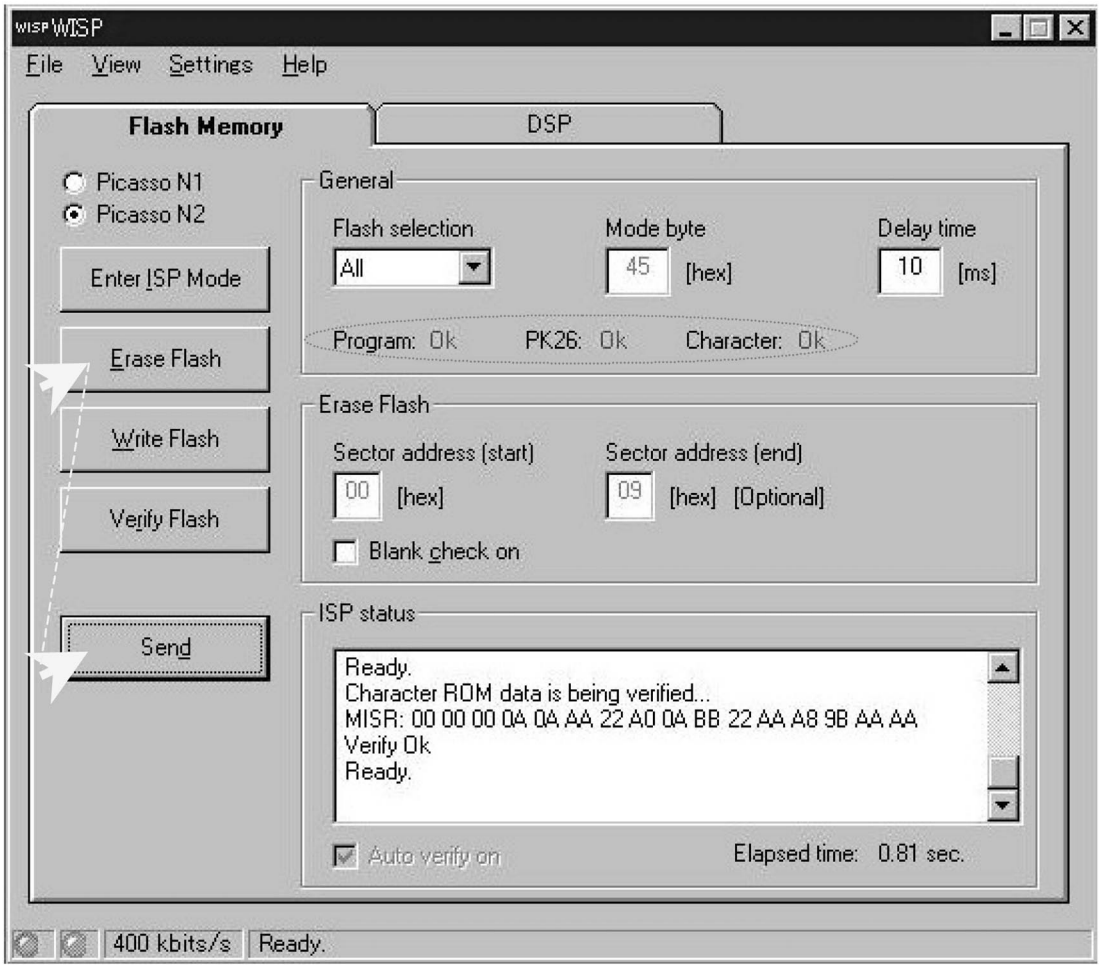



Confirm ISP status "Ready".



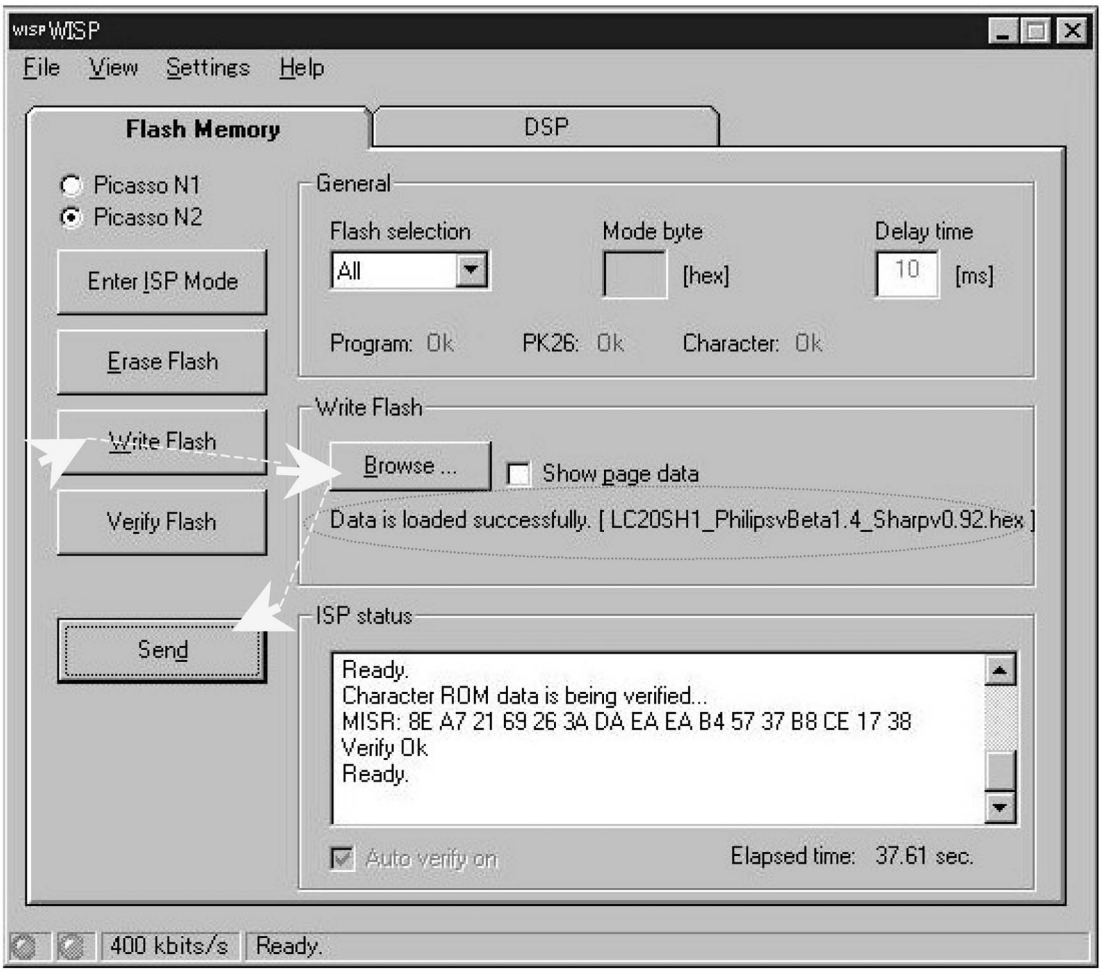

If "Entering ISP is not successful" occur, repeat step No. 4) again. If still fail, unplug the AC cord and repeat from step No. 2) again.

5) Then click [Erase Flash], follow by [Send]. Confirm the Program, PK26 & Character are all "OK" and ISP status is "Ready".




If "Failed" occur, unplug the AC cord and repeat the whole process again from beginning.

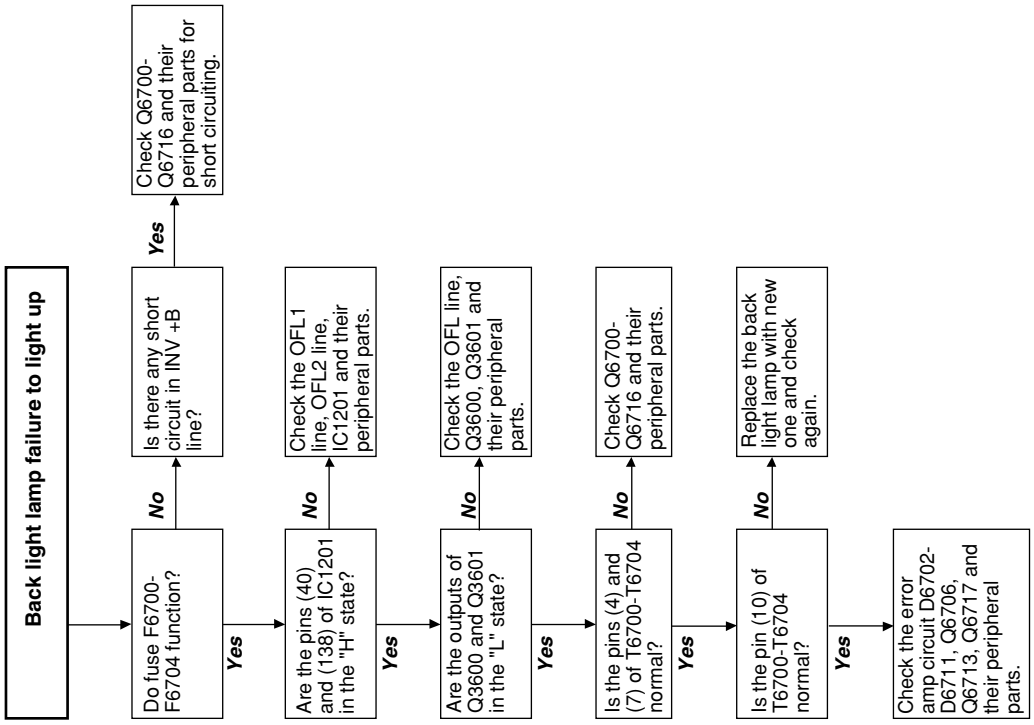
6) Next click [Write Flash] and load the source file by clicking [Browse]. The source file name are "LC20SH1_****.hex". Once the data is loaded successfully click [Send]. Confirm the Program, PK26 & Character are all "OK" and ISP status is "Ready".

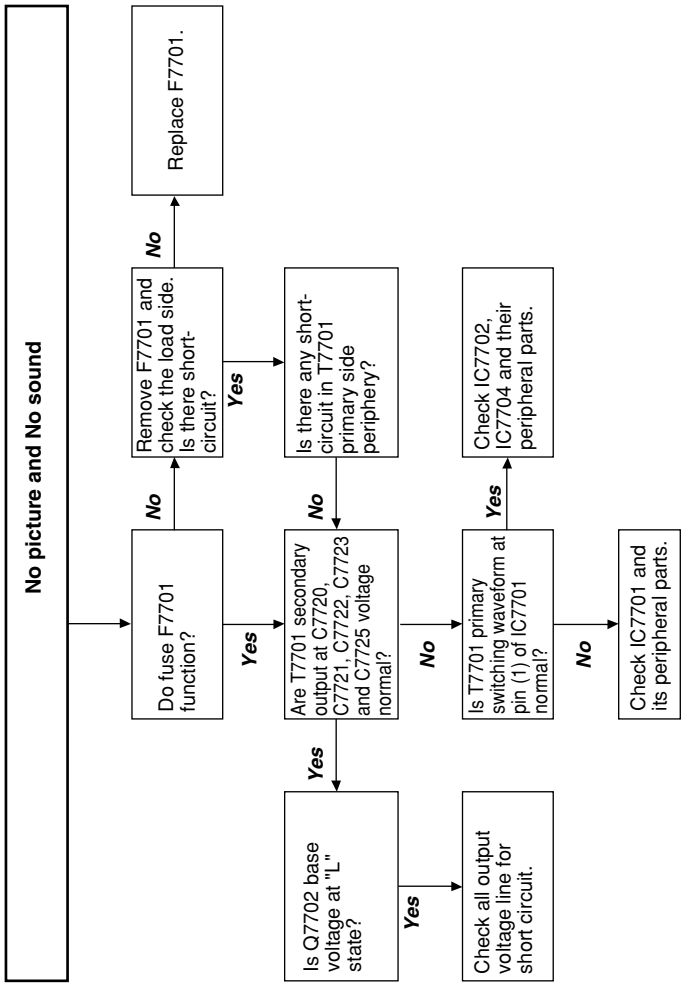



If "Failed" occur, unplug the AC cord and repeat the whole process again from beginning.

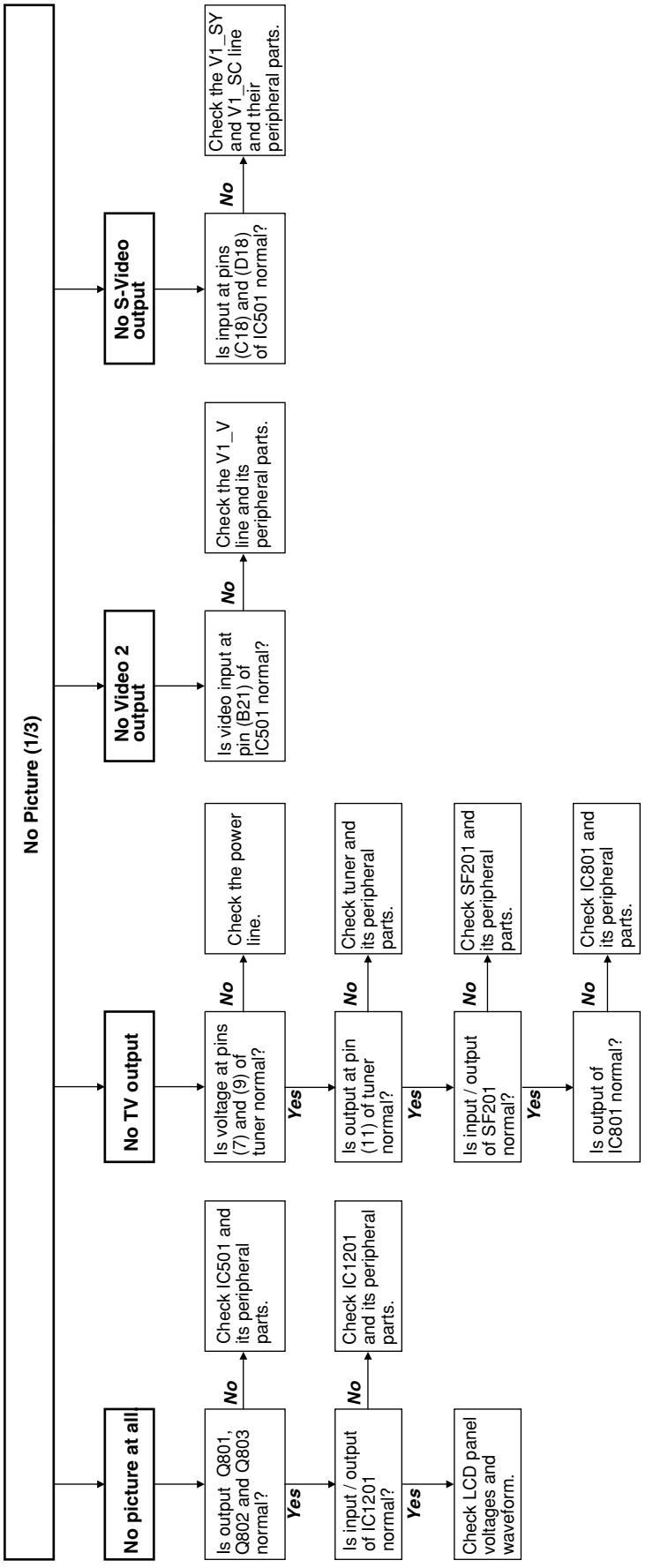
7) Finally click [Verify Flash] and [Send] to verify the flash memory. Confirm the Program, PK26 & Character are all "OK" and ISP status is "Ready". If "Failed" occur, unplug the AC cord and repeat the whole process again from beginning.
8) Power OFF the set and remove the JIG.

# TROUBLE SHOOTING TABLE

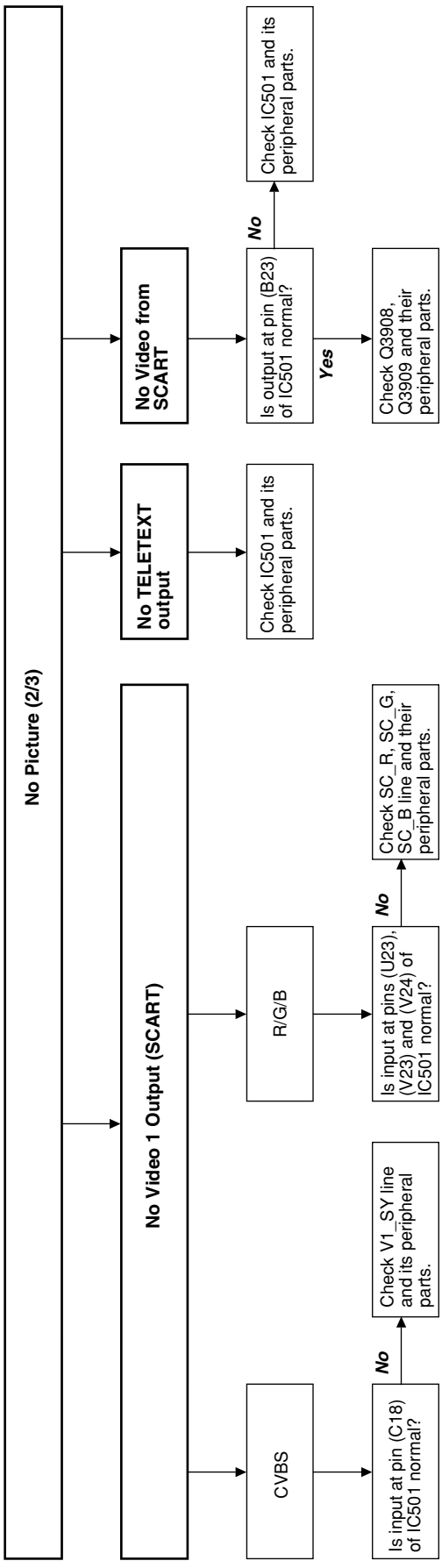

Back light lamp failure to light up
Do fuse F6700-F6704 function?
No
Is there any short circuit in INV +B line?
Yes
Check Q6700-Q6716 and their peripheral parts for short circuiting.
Yes
Are the pins (40) and (138) of IC1201 in the "H" state?
No
Check the OFL1 line, OFL2 line, IC1201 and their peripheral parts.
Yes
Are the outputs of Q3600 and Q3601 in the "L" state?
No
Check the OFL line, Q3600, Q3601 and their peripheral parts.
Yes
Is the pins (4) and (7) of T6700-T6704 normal?
No
Check Q6700-Q6716 and their peripheral parts.
Yes
Is the pin (10) of T6700-T6704 normal?
No
Replace the back light lamp with new one and check again.
Yes
Check the error amp circuit D6702-D6711, Q6706, Q6713, Q6717 and their peripheral parts.

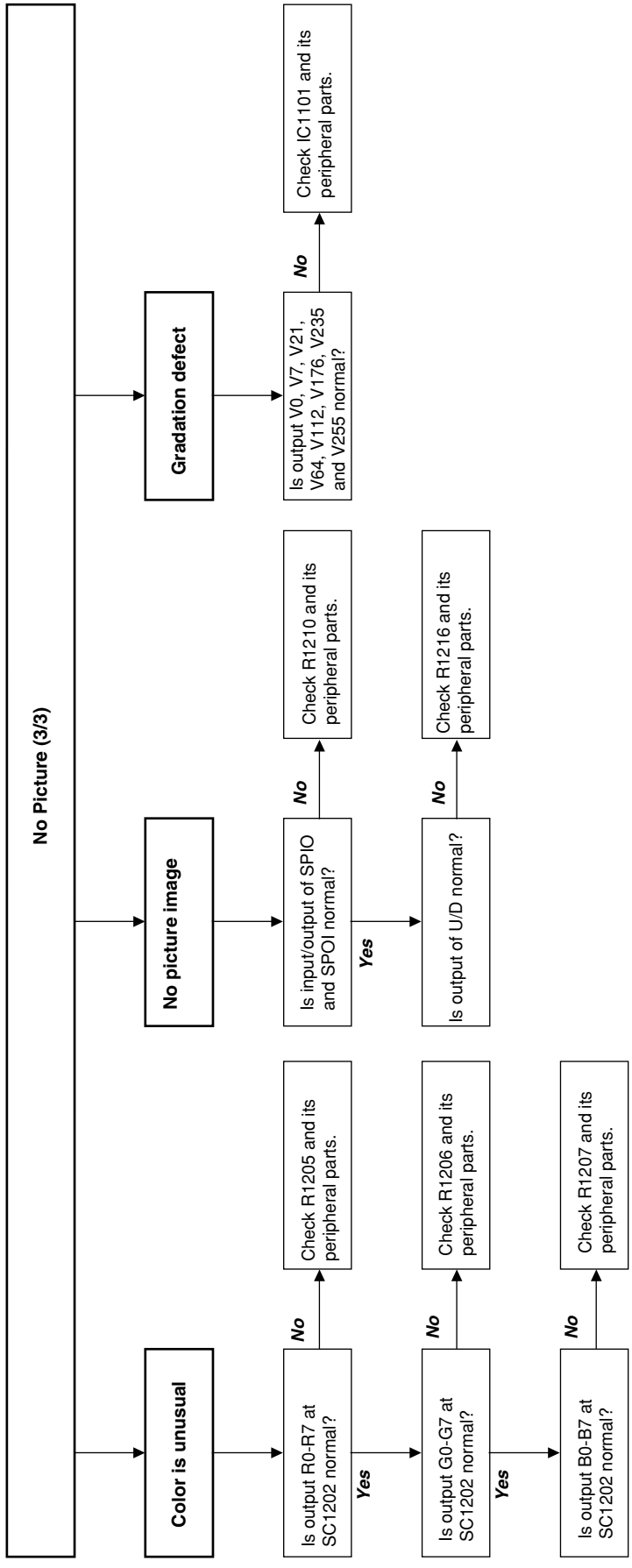

No picture and No sound
Do fuse F7701 function?
No
Remove F7701 and check the load side. Is there short-circuit?
No
Replace F7701.
Yes
Is there any short-circuit in T7701 primary side periphery?
Yes
Are T7701 secondary output at C7720, C7721, C7722, C7723 and C7725 voltage normal?
No
Is T7701 primary switching waveform at pin (1) of IC7701 normal?
Yes
Check IC7702, IC7704 and their peripheral parts.
No
Check IC7701 and its peripheral parts.
Yes
Is Q7702 base voltage at "L" state?
Yes
Check all output voltage line for short circuit.

# TROUBLE SHOOTING TABLE (Continued)

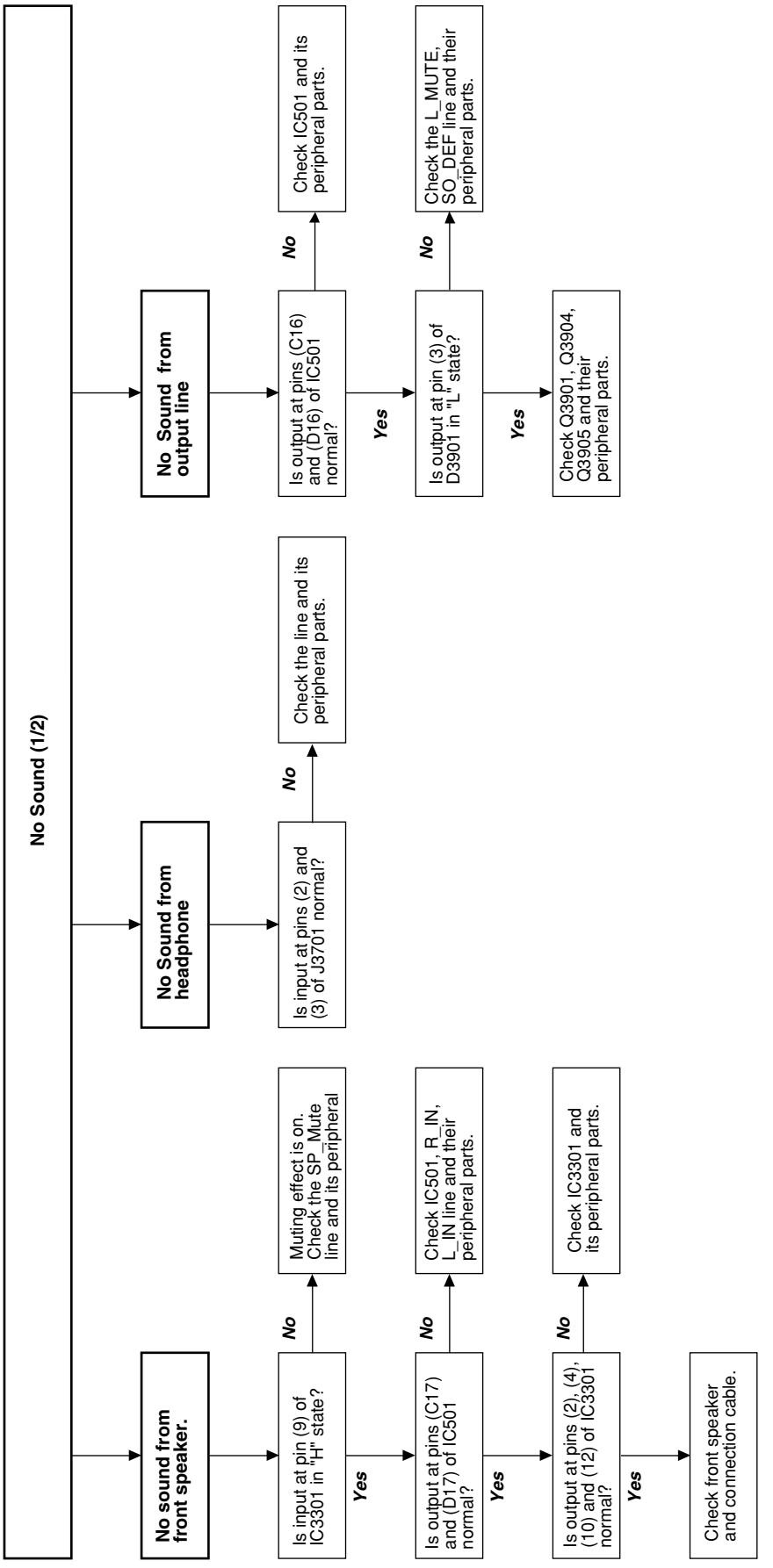

No Picture (1/3)
No picture at all.
Is output Q801, Q802 and Q803 normal?
No
Check IC501 and its peripheral parts.
Yes
Is input / output of IC1201 normal?
No
Check IC1201 and its peripheral parts.
Yes
Check LCD panel voltages and waveform.
No TV output
Is voltage at pins (7) and (9) of tuner normal?
No
Check the power line.
Yes
Is output at pin (11) of tuner normal?
No
Check tuner and its peripheral parts.
Yes
Is input / output of SF201 normal?
No
Check SF201 and its peripheral parts.
Yes
Is output of IC801 normal?
No
Check IC801 and its peripheral parts.
No Video 2 output
Is video input at pin (B21) of IC501 normal?
No
Check the V1_V line and its peripheral parts.
No S-Video output
Is input at pins (C18) and (D18) of IC501 normal?
No
Check the V1_SY and V1_SC line and their peripheral parts.

# TROUBLE SHOOTING TABLE (Continued)

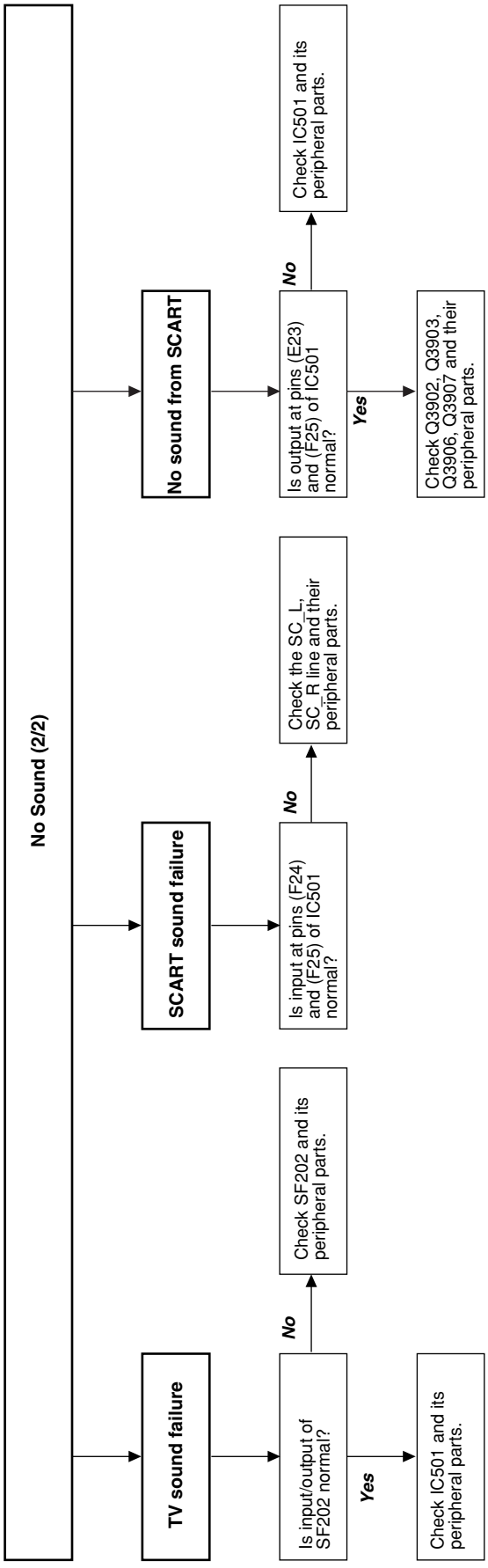

No Picture (2/3)
No Video 1 Output (SCART)
CVBS
Is input at pin (C18) of IC501 normal?
No
Check V1_SY line and its peripheral parts.
R/G/B
Is input at pins (U23), (V23) and (V24) of IC501 normal?
No
Check SC_R, SC_G, SC_B line and their peripheral parts.
No TELETEXT output
Check IC501 and its peripheral parts.
No Video from SCART
Is output at pin (B23) of IC501 normal?
No
Check IC501 and its peripheral parts.
Yes
Check Q3908, Q3909 and their peripheral parts.



# TROUBLE SHOOTING TABLE (Continued)

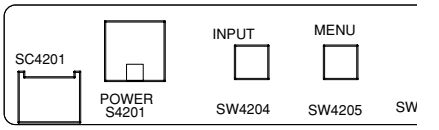

No Sound (1/2)
No sound from front speaker.
Is input at pin (9) of IC3301 in "H" state?
No
Muting effect is on. Check the SP_Mute line and its peripheral
Yes
Is output at pins (C17) and (D17) of IC501 normal?
No
Check IC501, R_IN, L_IN line and their peripheral parts.
Yes
Is output at pins (2), (4), (10) and (12) of IC3301 normal?
No
Check IC3301 and its peripheral parts.
Yes
Check front speaker and connection cable.
No Sound from headphone
Is input at pins (2) and (3) of J3701 normal?
No
Check the line and its peripheral parts.
No Sound from output line
Is output at pins (C16) and (D16) of IC501 normal?
No
Check IC501 and its peripheral parts.
Yes
Is output at pin (3) of D3901 in "L" state?
No
Check the L_MUTE, SO_DEF line and their peripheral parts.
Yes
Check Q3901, Q3904, Q3905 and their peripheral parts.

# TROUBLE SHOOTING TABLE (Continued)

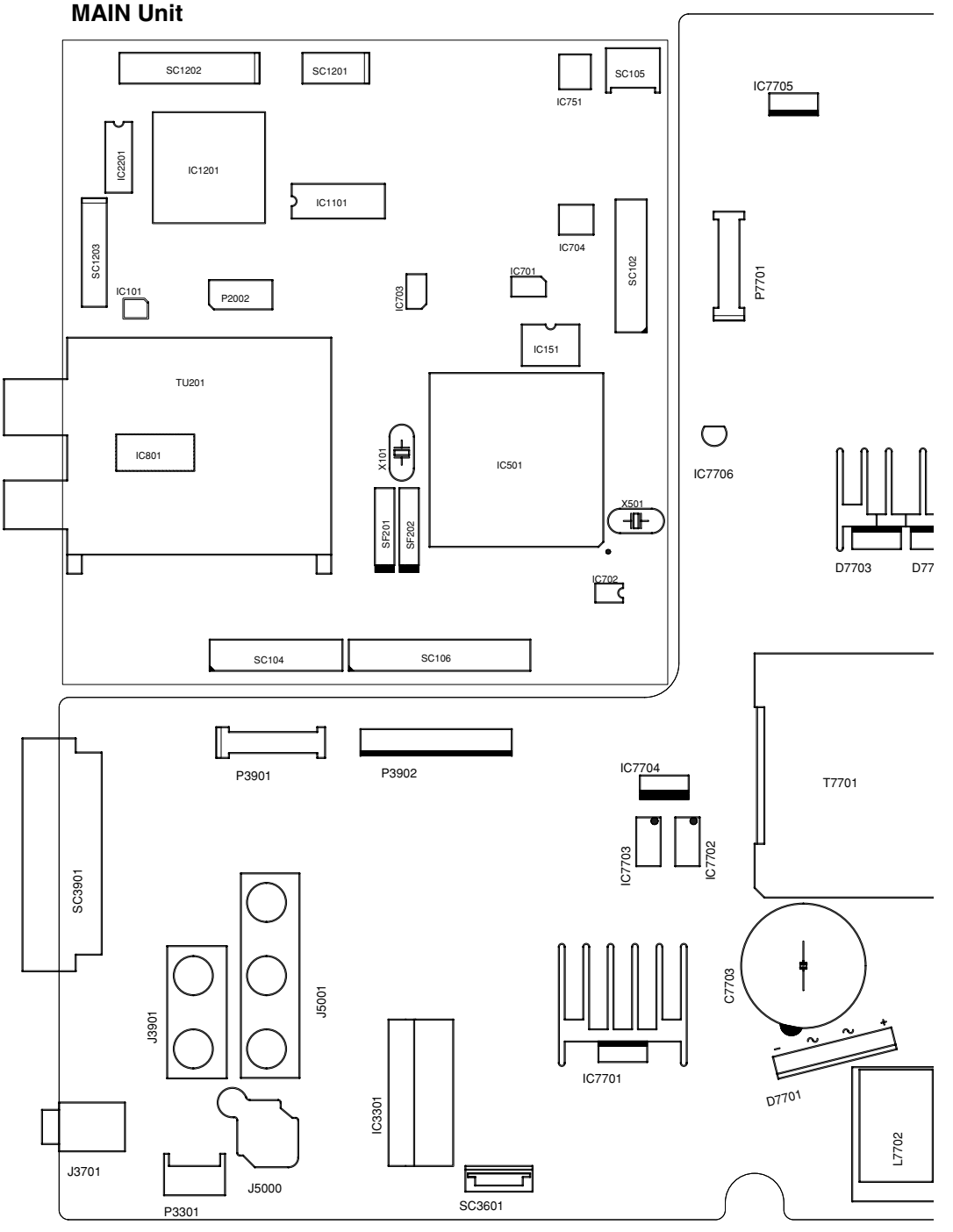

No Sound (2/2)
TV sound failure
Is input/output of SF202 normal?
No
Check SF202 and its peripheral parts.
Yes
Check IC501 and its peripheral parts.
SCART sound failure
Is input at pins (F24) and (F25) of IC501 normal?
No
Check the SC_L, SC_R line and their peripheral parts.
No sound from SCART
Is output at pins (E23) and (F25) of IC501 normal?
No
Check IC501 and its peripheral parts.
Yes
Check Q3902, Q3903, Q3906, Q3907 and their peripheral parts.

# CHASSIS LAYOUT

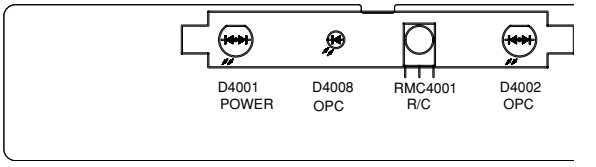
## OPERATION Unit




## MAIN Unit

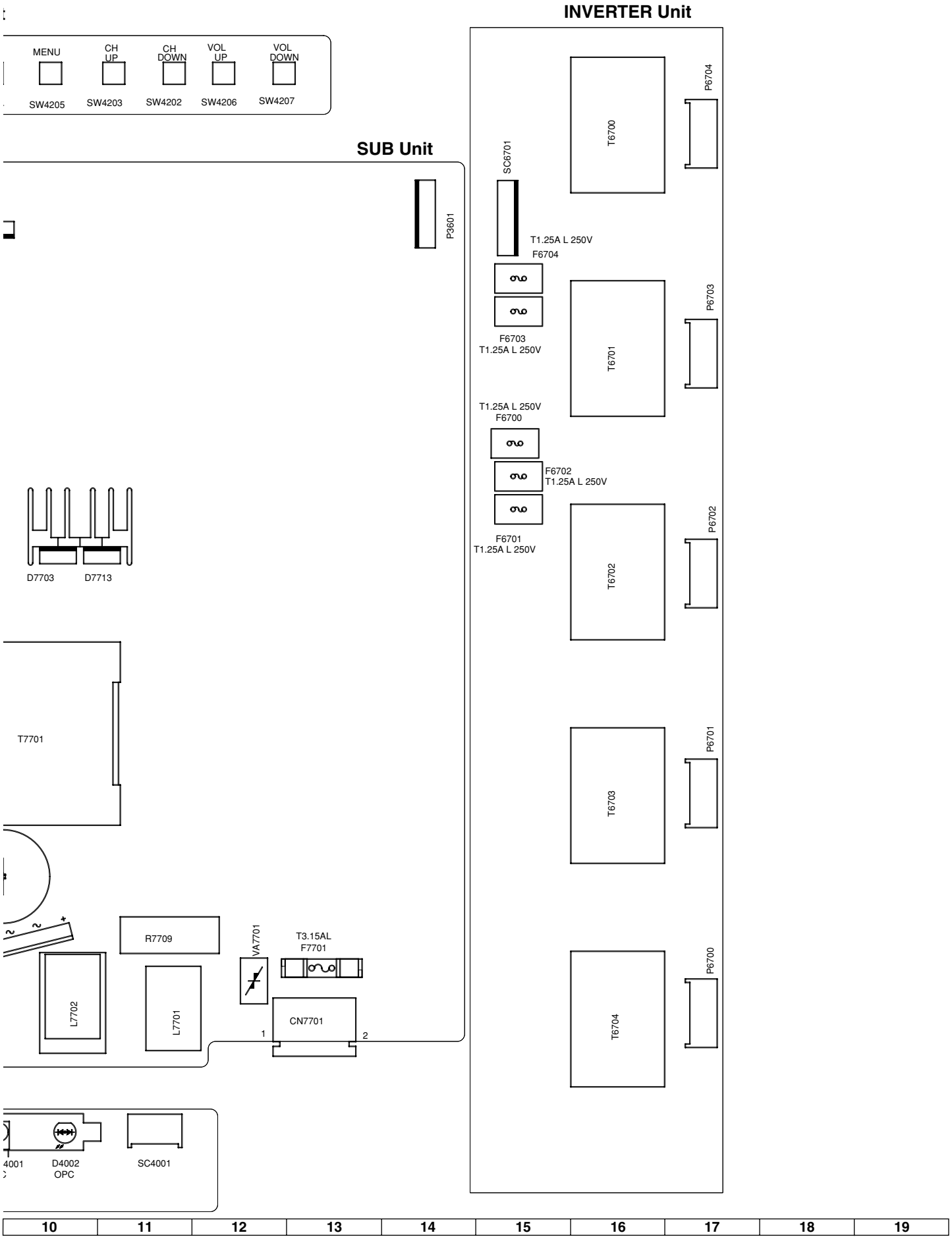



## R/C, LED Unit



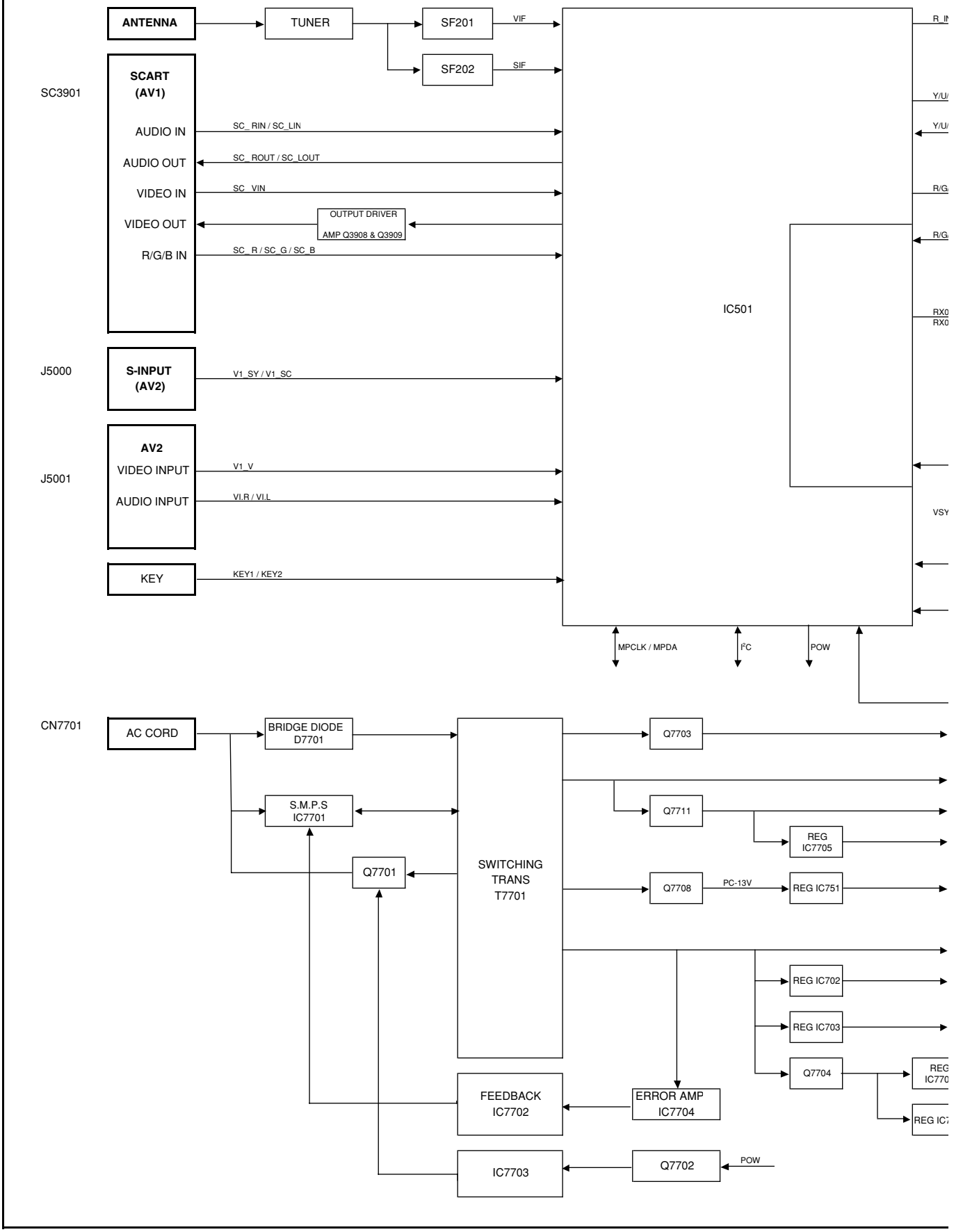

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|

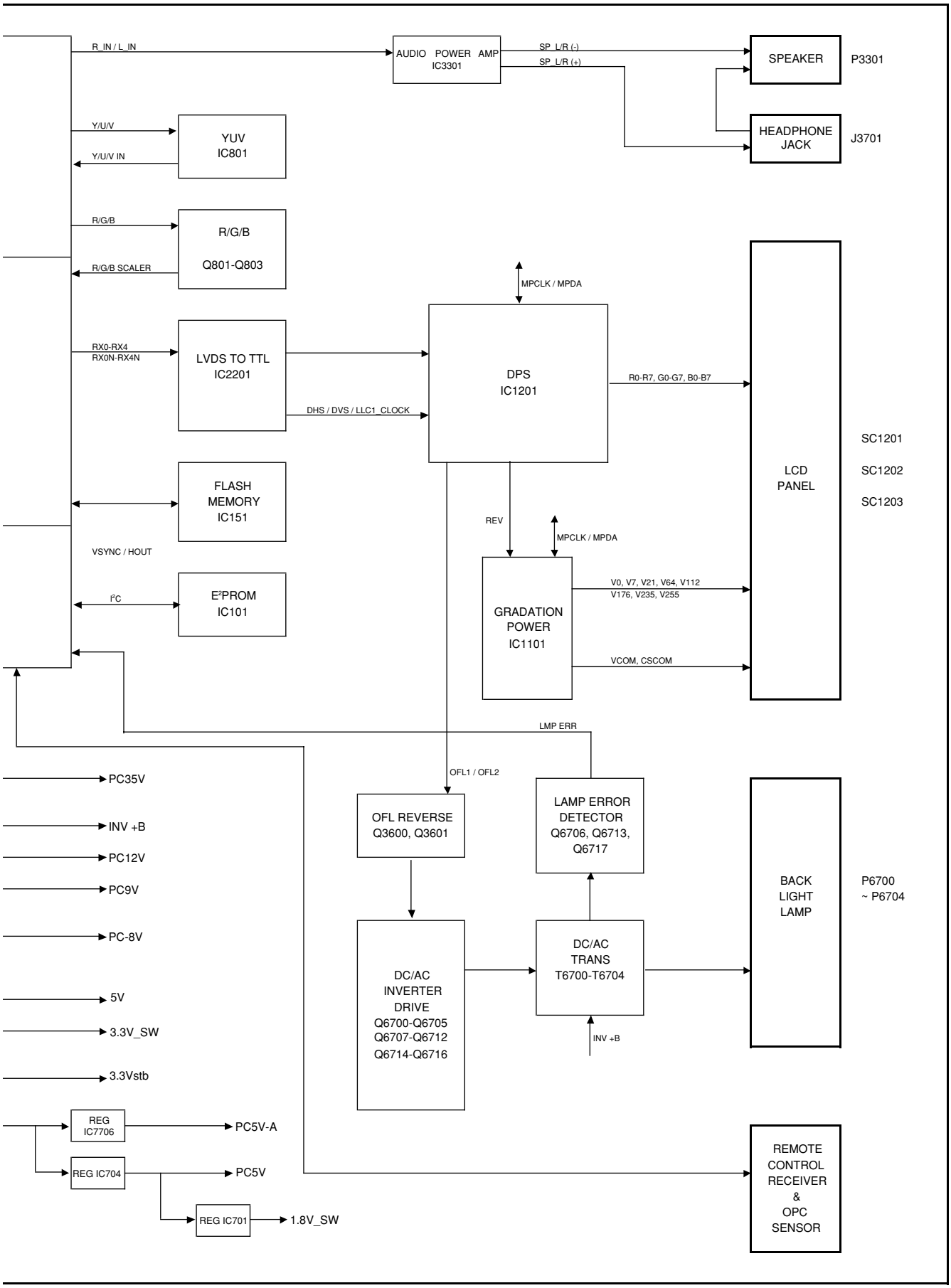
H G F E D C B A




| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

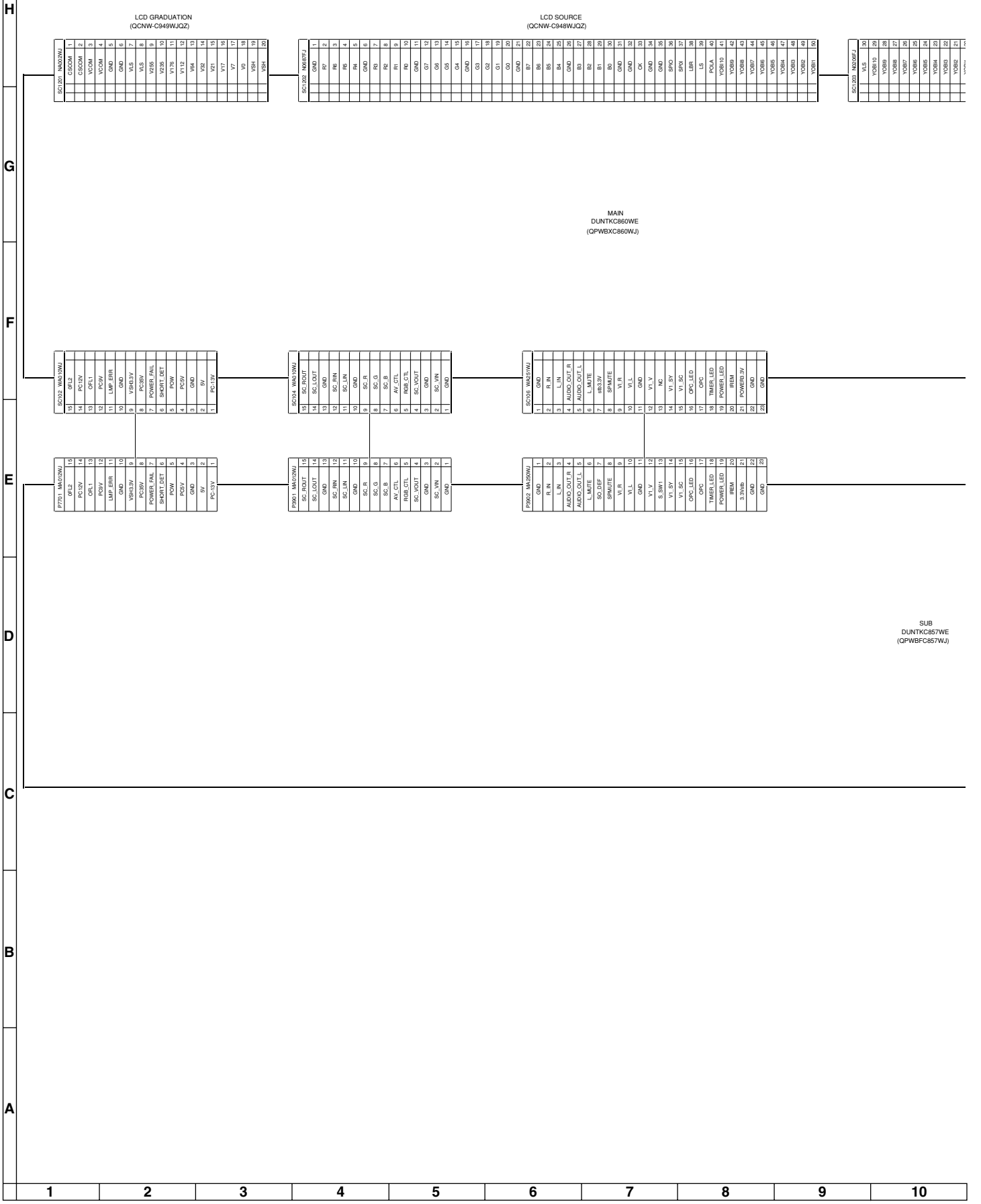
# BLOCK DIAGRAM

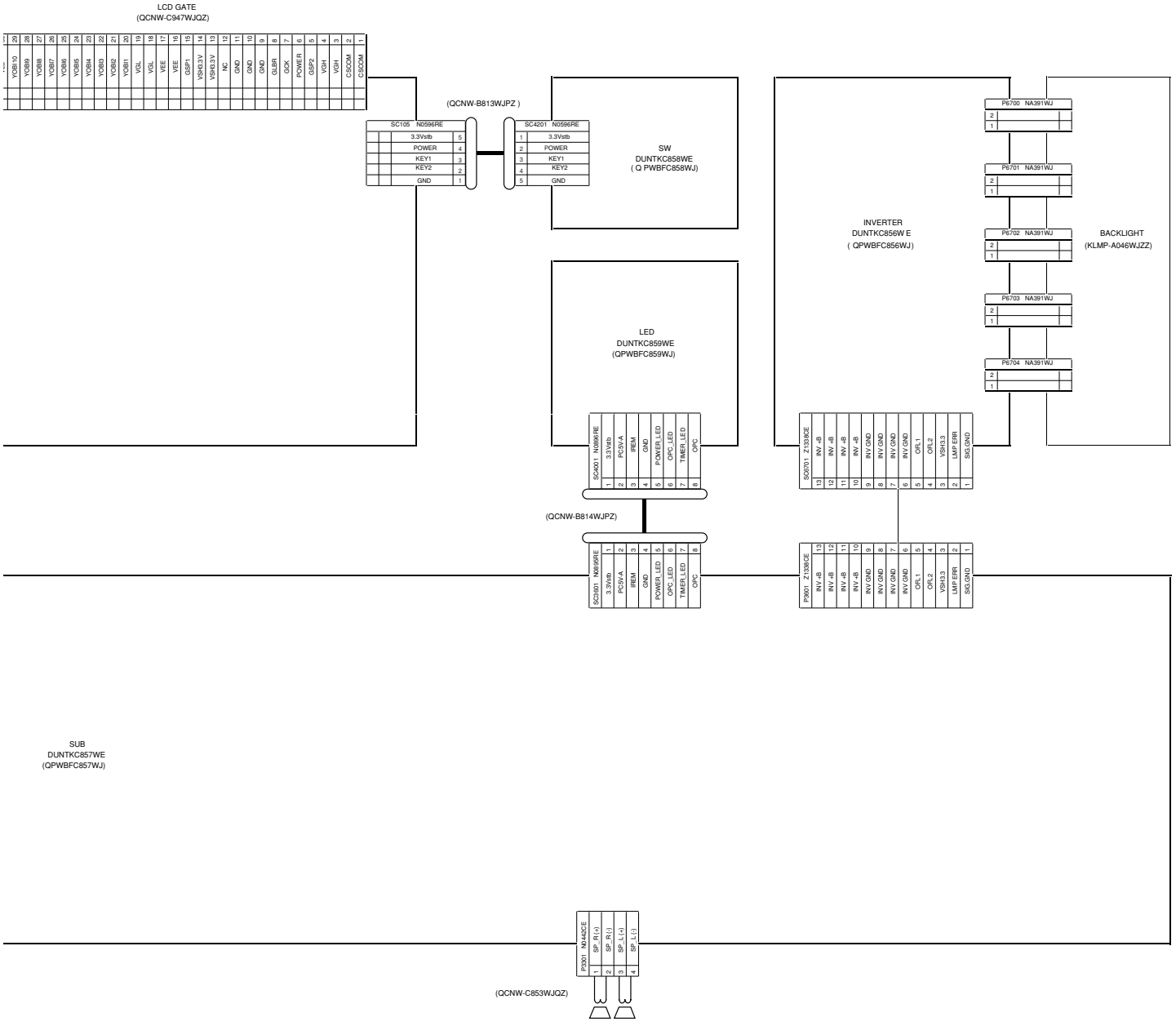





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# OVERALL WIRING DIAGRAM




LCD GATE
(QCNW-C947WJQZ)
(QCNW-B813WJPZ )
SW
DUNTKC858WE
( Q PWBFC858WJ)
INVERTER
DUNTKC856W E
( QPWBFC856WJ)
BACKLIGHT
(KLMP-A046WJZZ)
LED
DUNTKC859WE
(QPWBFC859WJ)
(QCNW-B814WJPZ)
SUB
DUNTKC857WE
(QPWBFC857WJ)
(QCNW-C853WJQZ)

# DESCRIPTION OF SCHEMATIC DIAGRAM

## VOLTAGE MEASUREMENT CONDITION:

1. The voltages at test points are measured on the stable supply voltage of AC 220-240V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

## INDICATION OF RESISTOR & CAPACITOR:

### RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
   Ⓒ: Solid  Ⓦ: Cement
   Ⓢ: Oxide Film  Ⓣ: Special
   Ⓝ: Metal Coating

### CAPACITOR

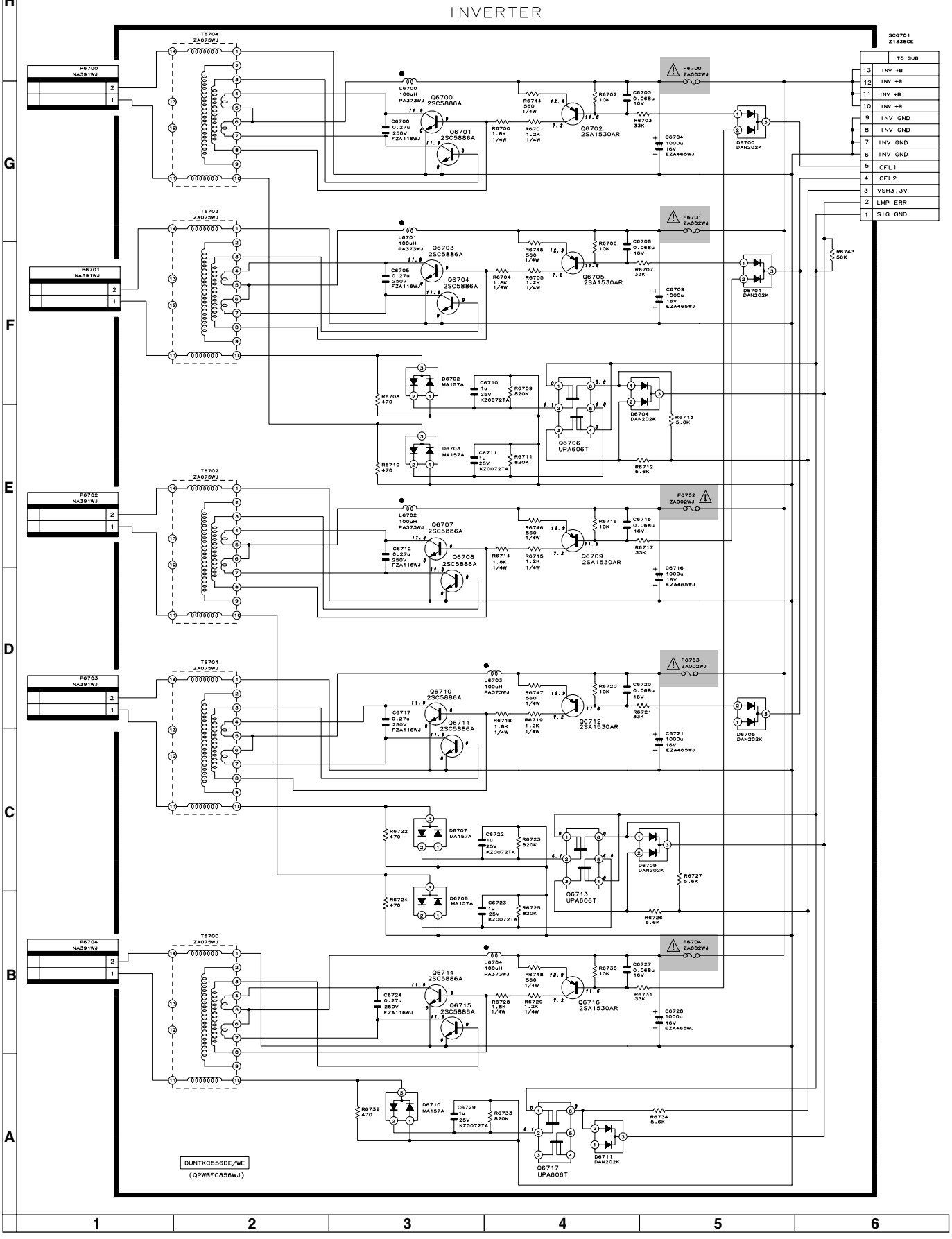
1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
   (ML): Mylar  (TA): Tantalum
   (PF): Polypro Film  (ST): Styrol

**CAUTION:**
**This circuit diagram is original one, therefore there may be a slight difference from yours.**

***IMPORTANT SAFETY NOTICE:***
***PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.***

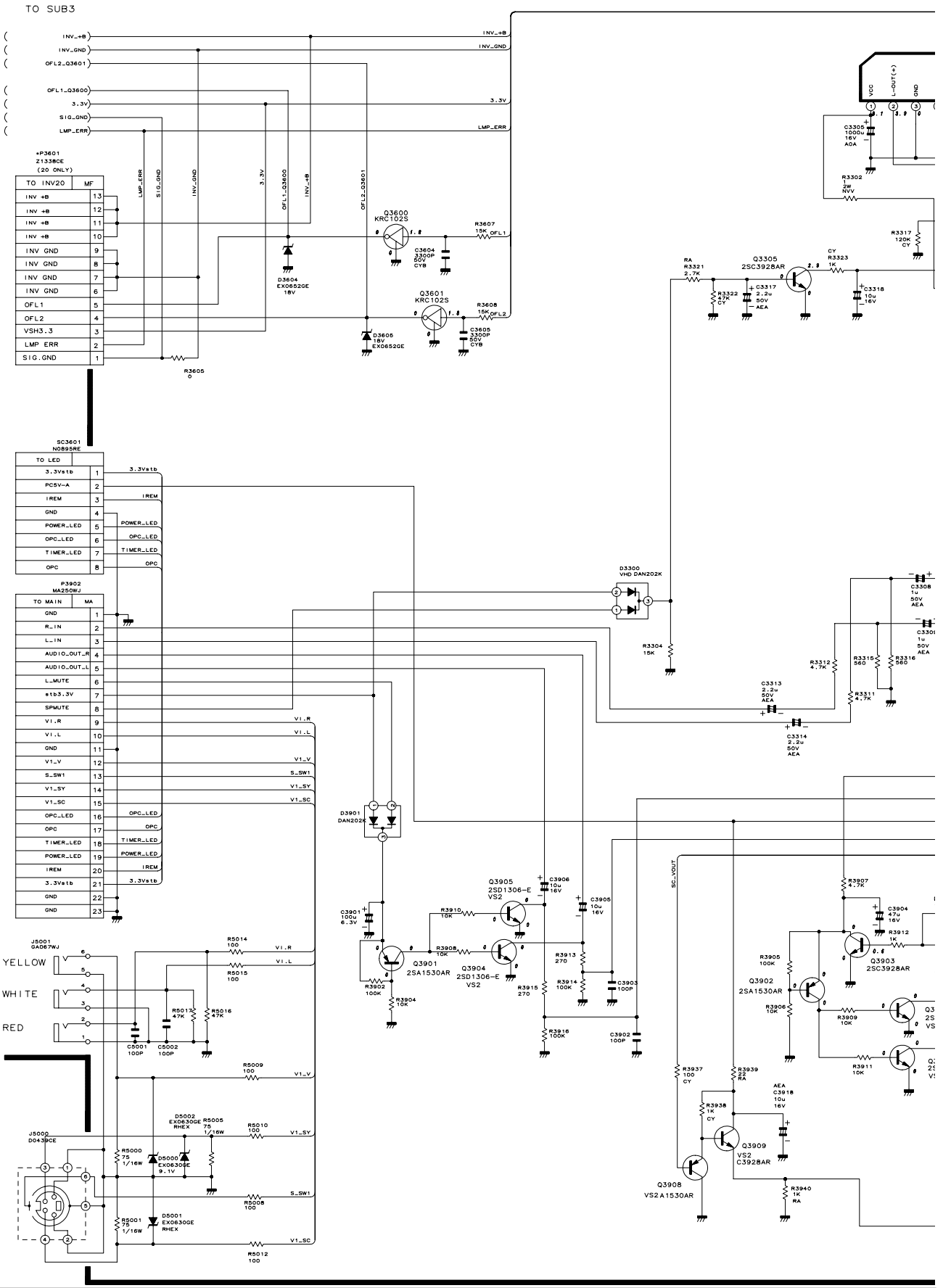
# SCHEMATIC DIAGRAM

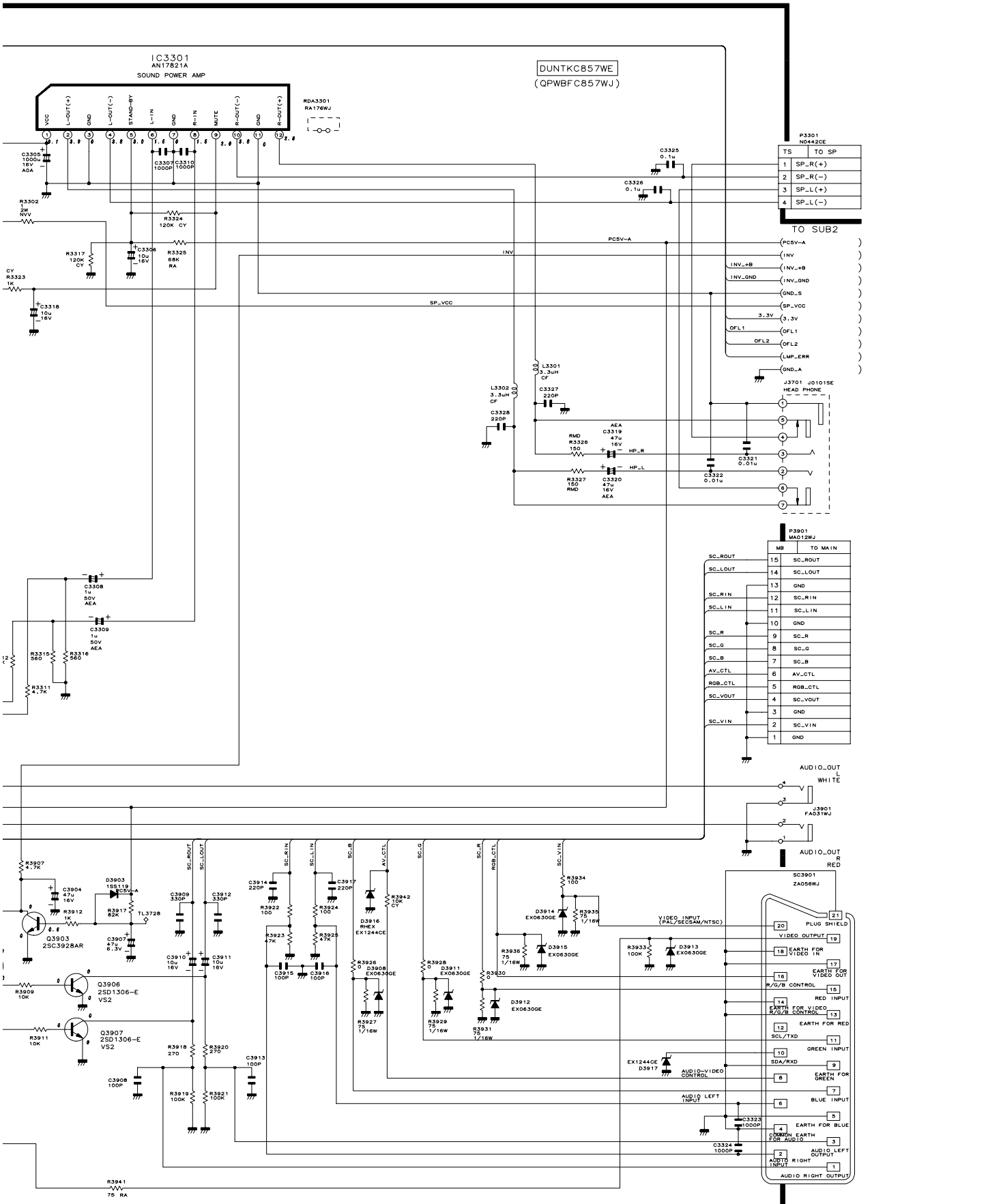
## ■ INVERTER Unit



# ■ SUB Unit-1/2

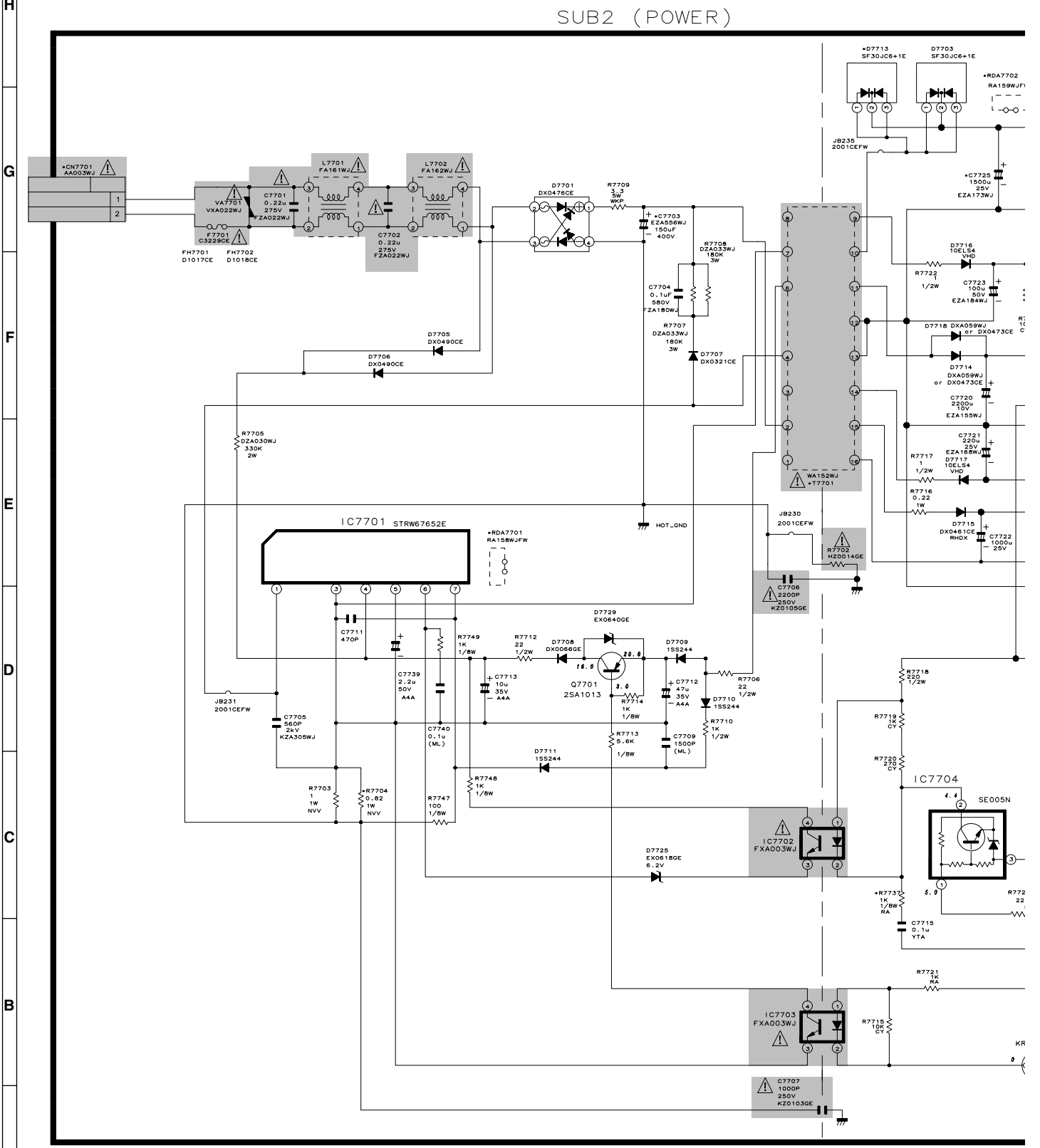
SUB1 (AV_TERMINAL)

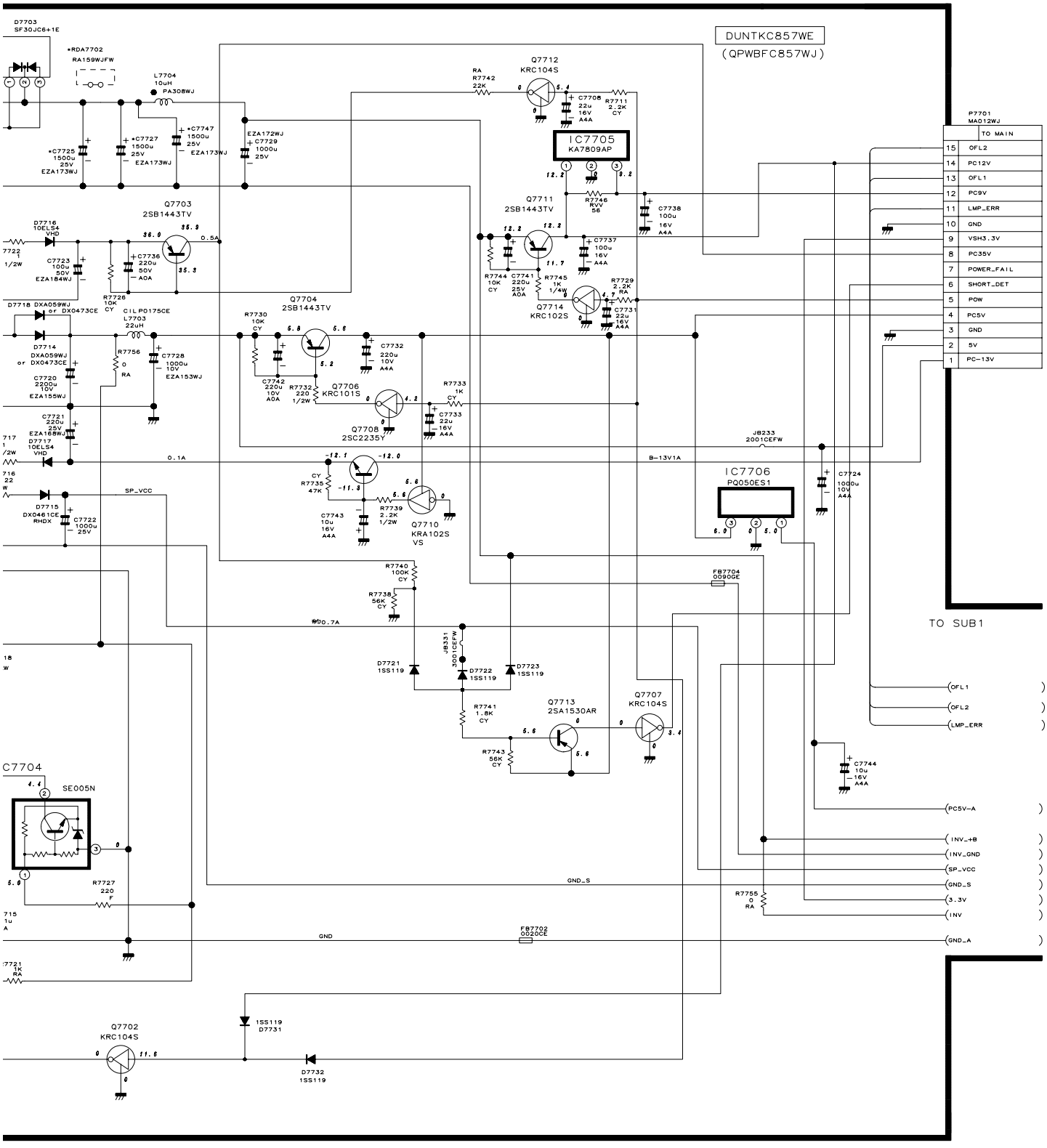





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# ■ SUB Unit-2/2

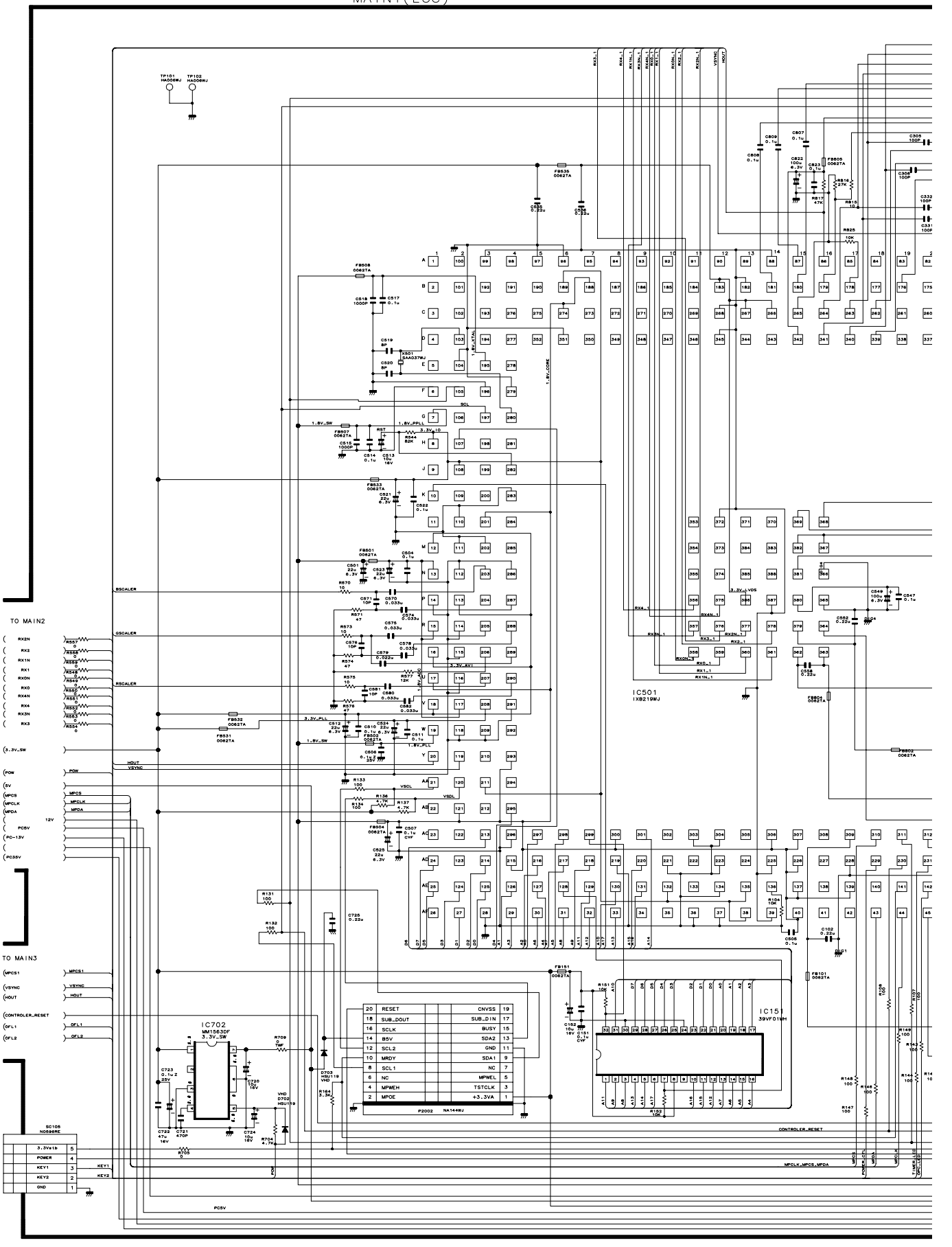

SUB2 (POWER)
IC7701 STRW67652E
Q7701 2SA1013
IC7704
SE005N
IC7702 FXA003WJ
IC7703 FXA003WJ
WA152WJ *T7701
HOT_GND
JB230 2001CEFW
JB231 2001CEFW
JB235 2001CEFW
*CN7701 AA003WJ
VA7701 VXA022WJ
F7701 C3229CE
FH7701 D1017CE
FH7702 D1018CE
L7701 FA161WJ
L7702 FA162WJ
C7701 0.22u 275V FZA022WJ
C7702 0.22u 275V FZA022WJ
*RDA7701 RA158WJFW
*RDA7702 RA159WJFW
*D7713 SF30JC6+1E
D7703 SF30JC6+1E
D7701 DX0476CE
D7705 DX0490CE
D7706 DX0490CE
D7707 DX0321CE
D7708 DX0066GE
D7709 1SS244
D7710 1SS244
D7711 1SS244
D7729 EX0640GE
D7725 EX0618GE 6.2V
D7715 DX0461CE RHDX
D7716 10ELS4 VHD
D7717 10ELS4 VHD
D7718 DXA059WJ or DX0473CE
D7714 DXA059WJ or DX0473CE
R7705 DZA030WJ 330K 2W
R7707 DZA033WJ 180K 3W
R7708 DZA033WJ 180K 3W
R7709 3.3 5W WKP
R7722 1 1/2W
R7717 1 1/2W
R7716 0.22 1W
R7702 HZ0014GE
R7703 1 1W NVV
*R7704 0.82 1W NVV
R7747 100 1/6W
R7748 1K 1/8W
R7749 1K 1/8W
R7712 22 1/2W
R7714 1K 1/8W
R7713 5.6K 1/8W
R7706 22 1/2W
R7710 1K 1/2W
R7718 220 1/2W
R7719 1K CY
R7720 270 CY
*R7733 1K 1/8W RA
R7721 1K RA
R7715 10K CY
C7704 0.1uF 50V FZA180WJ
*C7703 EZA556WJ 150uF 400V
*C7725 1500u 25V EZA173WJ
C7723 100u 50V EZA184WJ
C7720 2200u 10V EZA155WJ
C7721 220u 25V EZA168WJ
C7722 1000u 25V
C7706 2200P 250V KZ0105GE
C7707 1000P 250V KZ0103GE
C7711 470P
C7739 2.2u 50V A4A
C7740 0.1u (ML)
C7713 10u 35V A4A
C7712 47u 35V A4A
C7709 1500P (ML)
C7705 560P 2kV KZA305WJ
C7715 0.1u YTA

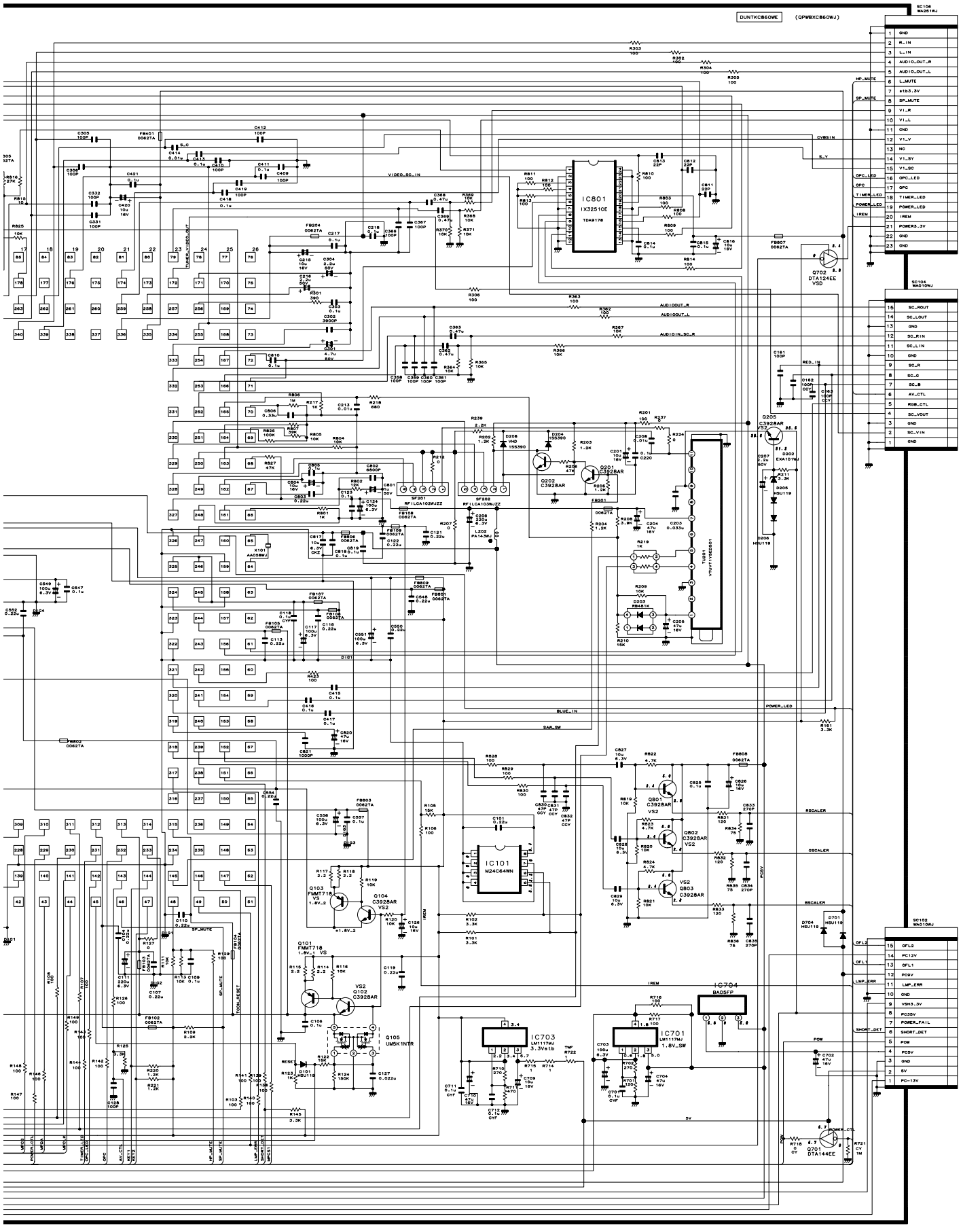



| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# ■ MAIN Unit-1/3

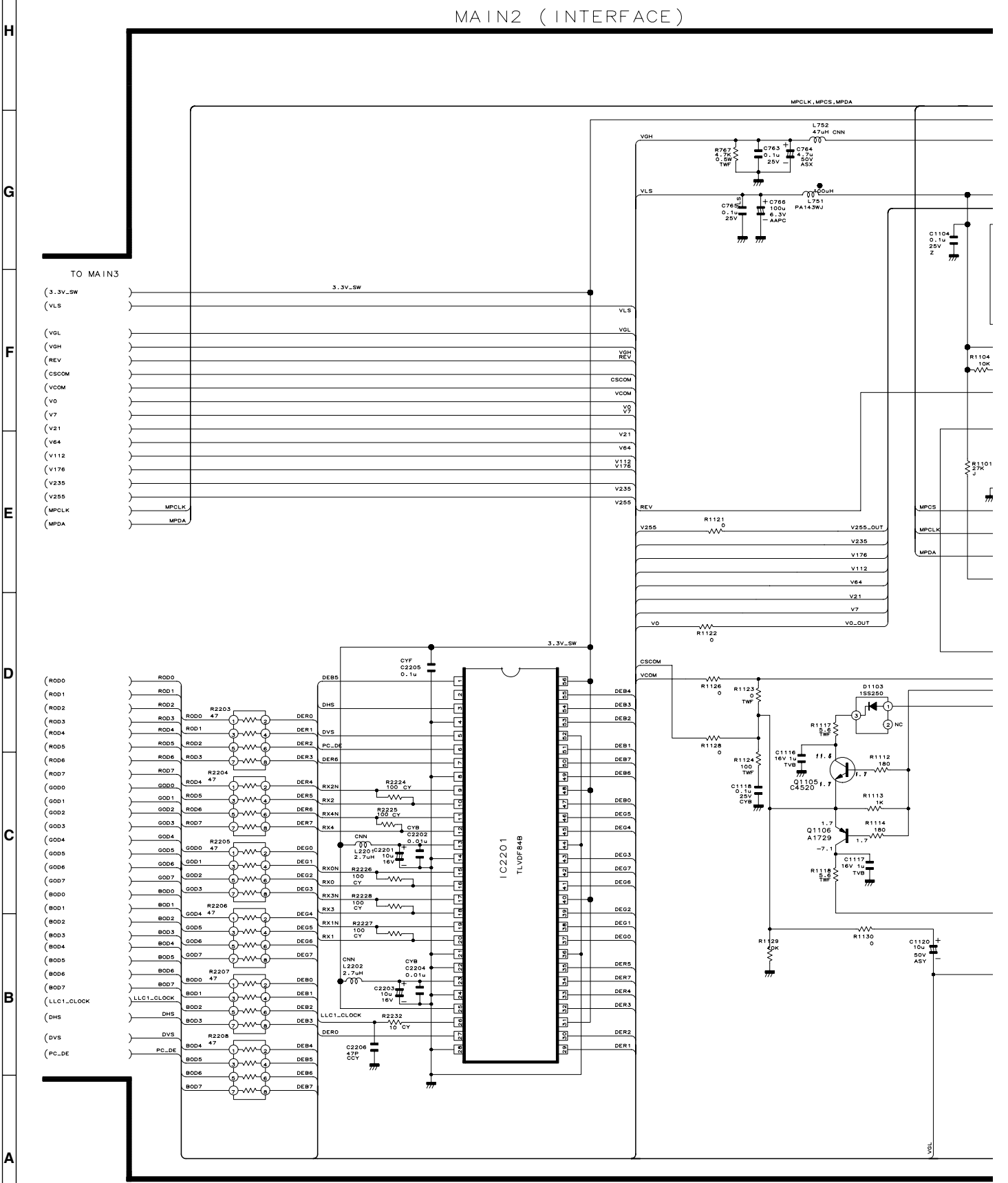
MAIN1(LOC)

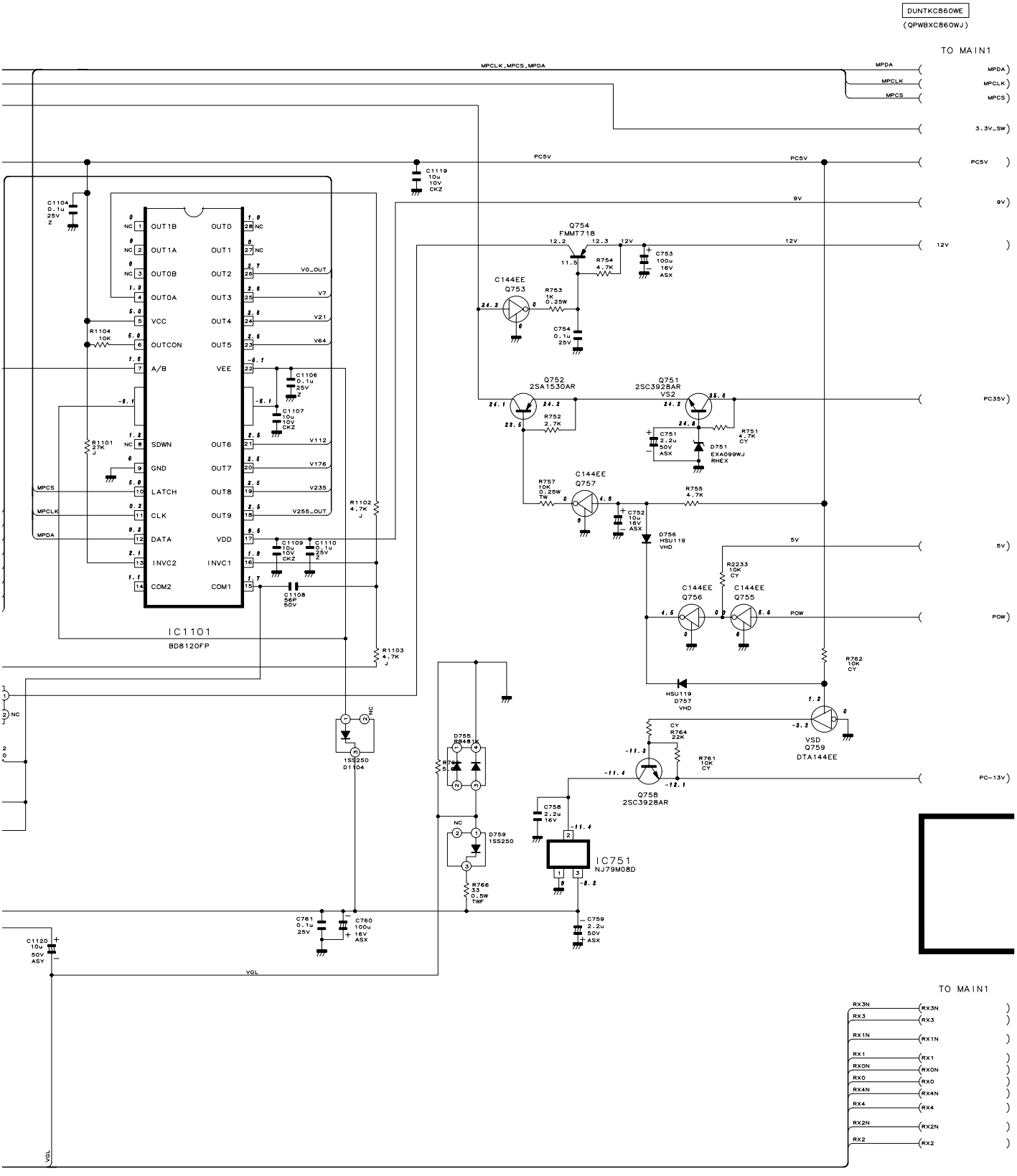





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

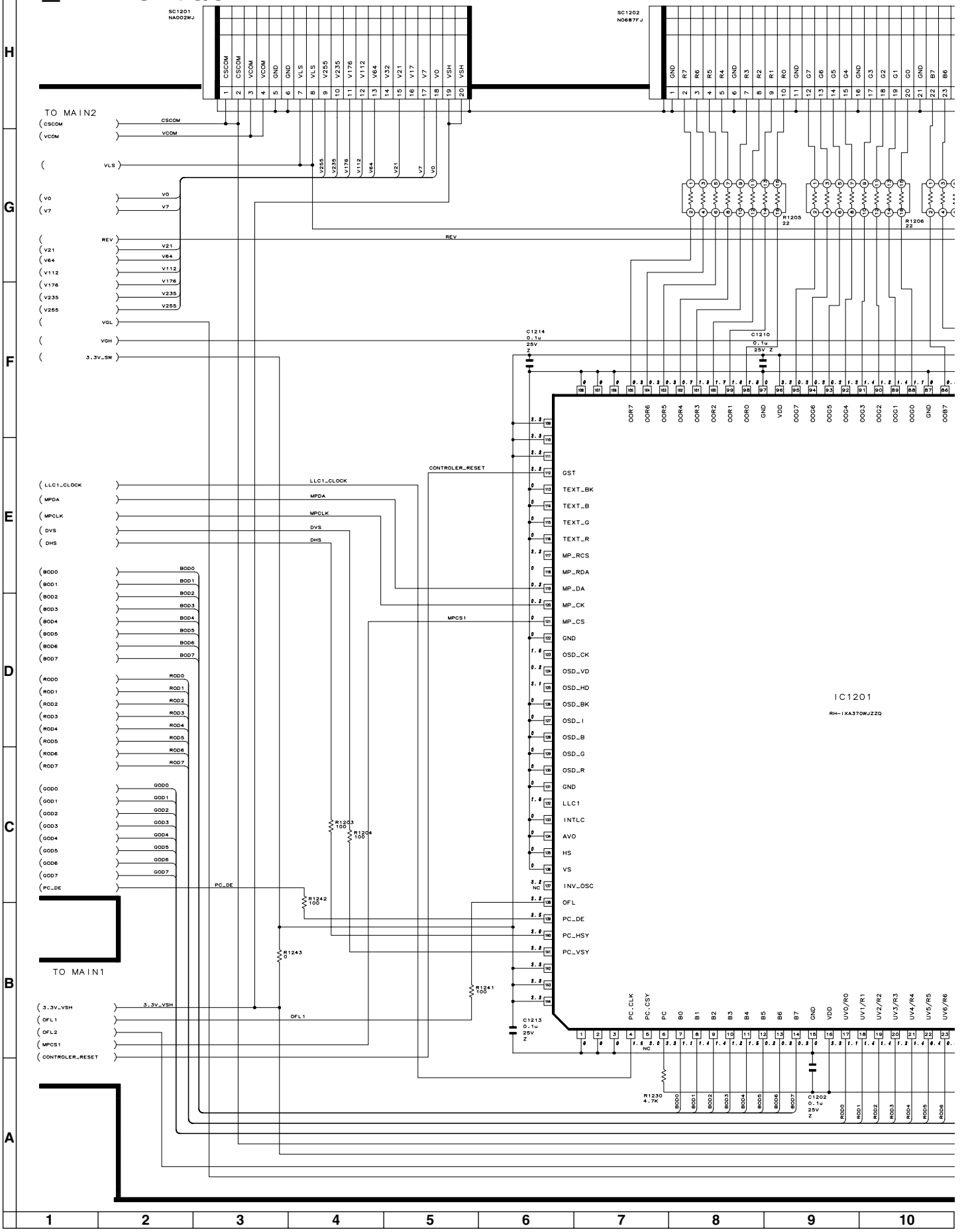
# ■ MAIN Unit-2/3

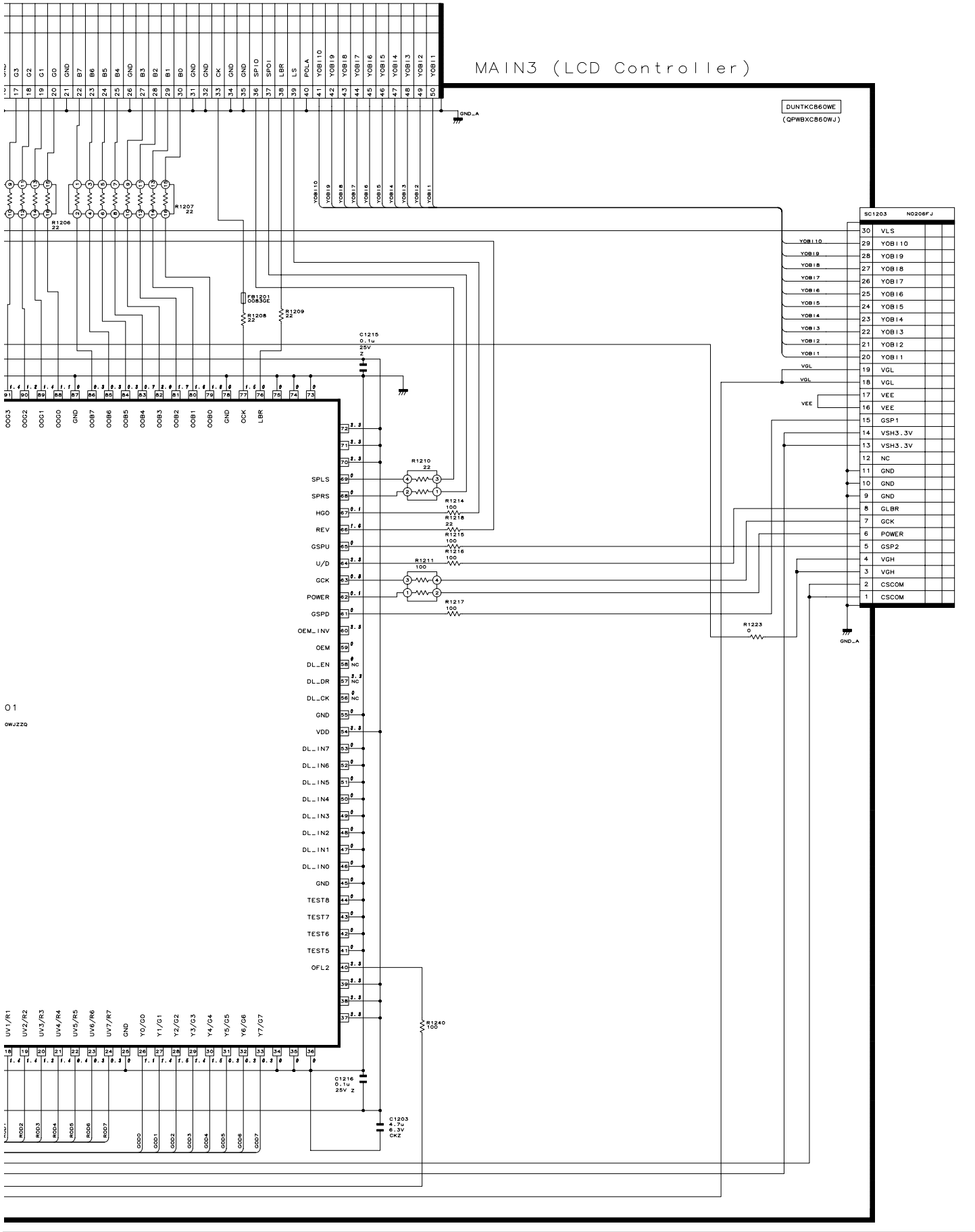

MAIN2 (INTERFACE)
TO MAIN3
3.3V_SW
VLS
VGL
VGH
REV
CSCOM
VCOM
V0
V7
V21
V64
V112
V176
V235
V255
MPCLK
MPDA
MPCS
V255_OUT
V0_OUT
IC2201
TLVDF84B
L752
47uH CNN
L751
PA143WJ
D1103
1SS250
Q1105
C4520
Q1106
A1729



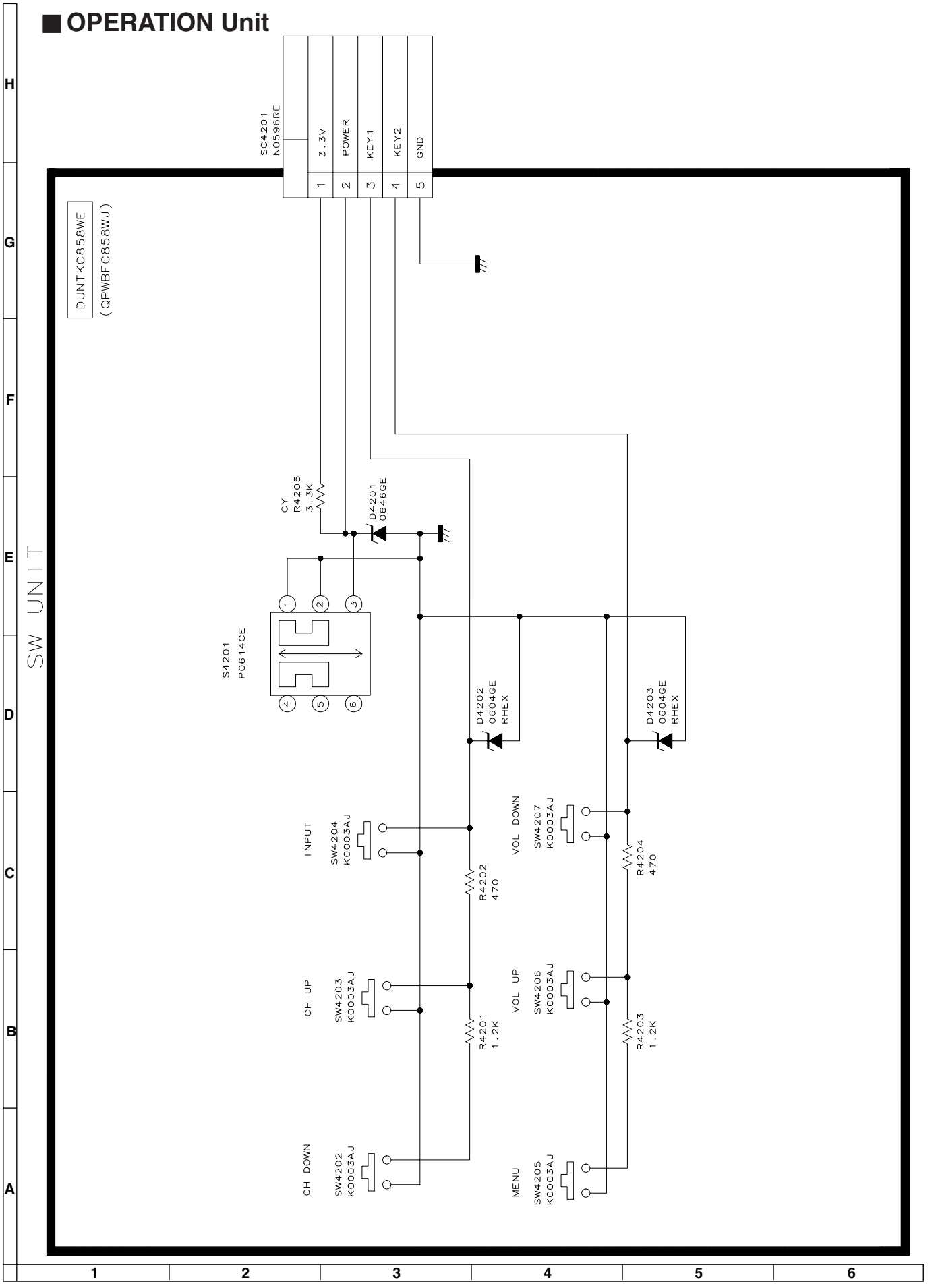

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# ■ MAIN Unit-3/3

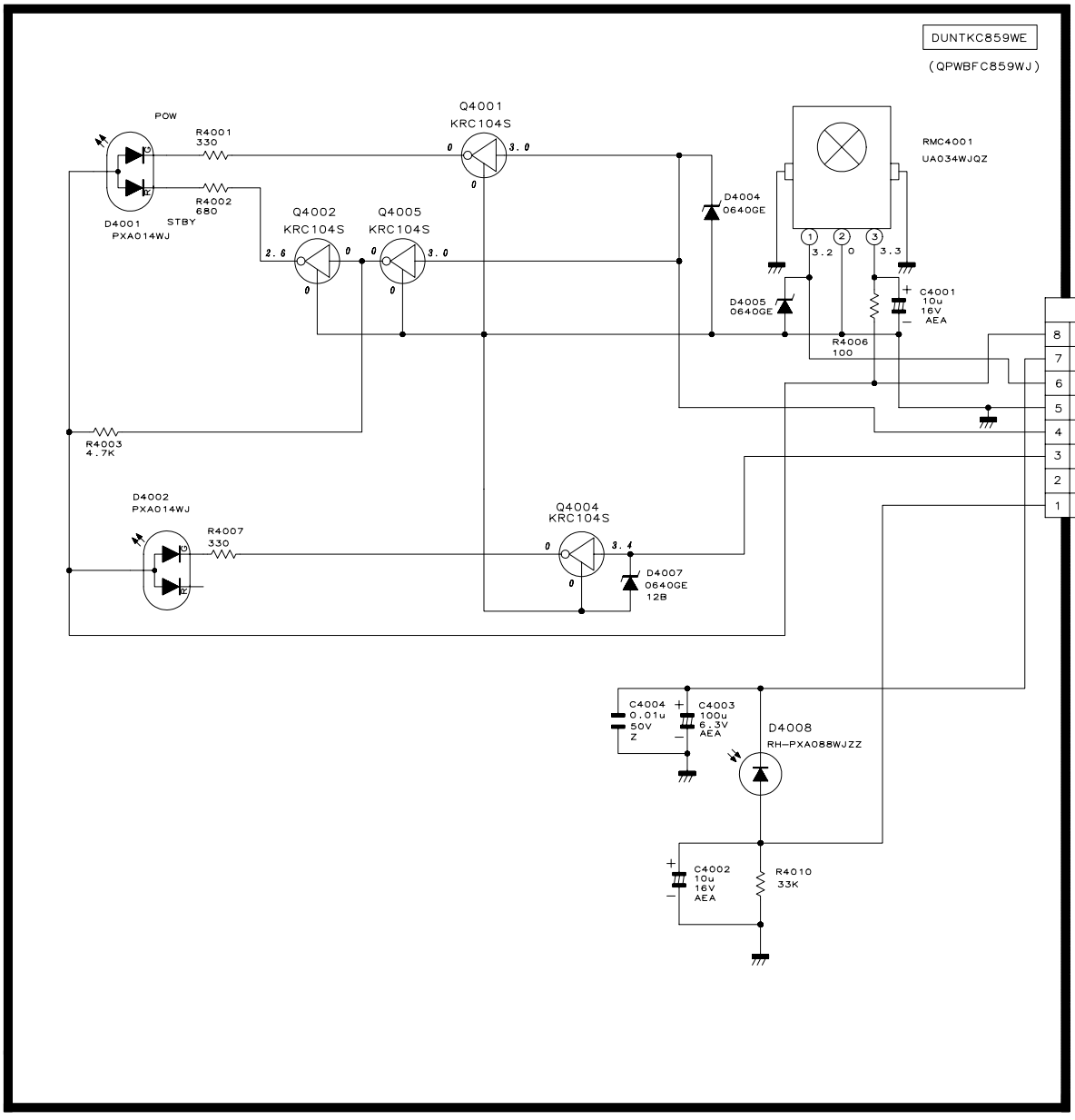

SC1201
NA002WJ
SC1202
N0687FJ
TO MAIN2
TO MAIN1
IC1201
RH-IXA370WJZZQ
CSCOM
VCOM
VLS
V0
V7
REV
V21
V64
V112
V176
V235
V255
VGL
VGH
3.3V_SW
C1214
0.1u
25V
Z
C1210
0.1u
25V Z
R1205
22
R1206
22
CONTROLER_RESET
LLC1_CLOCK
MPDA
MPCLK
DVS
DHS
MPCS1
BOD0
BOD1
BOD2
BOD3
BOD4
BOD5
BOD6
BOD7
ROD0
ROD1
ROD2
ROD3
ROD4
ROD5
ROD6
ROD7
GOD0
GOD1
GOD2
GOD3
GOD4
GOD5
GOD6
GOD7
PC_DE
R1203
100
R1204
100
R1242
100
R1243
0
R1241
100
3.3V_VSH
OFL1
OFL2
C1213
0.1u
25V
Z
R1230
4.7K
C1202
0.1u
25V
Z
GST
TEXT_BK
TEXT_B
TEXT_G
TEXT_R
MP_RCS
MP_RDA
MP_DA
MP_CK
MP_CS
GND
OSD_CK
OSD_VD
OSD_HD
OSD_BK
OSD_I
OSD_B
OSD_G
OSD_R
GND
LLC1
INTLC
AVO
HS
VS
INV_OSC
OFL
PC_DE
PC_HSY
PC_VSY
OOR7
OOR6
OOR5
OOR4
OOR3
OOR2
OOR1
OOR0
GND
VDD
OOG7
OOG6
OOG5
OOG4
OOG3
OOG2
OOG1
OOG0
GND
OOB7
PC_CLK
PC_CSY
PC
BO
B1
B2
B3
B4
B5
B6
B7
GND
VDD
UV0/R0
UV1/R1
UV2/R2
UV3/R3
UV4/R4
UV5/R5
UV6/R6


MAIN3 (LCD Controller)
DUNTKC860WE
(QPWBXC860WJ)
SC1203 N0206FJ
GND_A
R1207 22
R1206 22
FB1201 0GB3GE
R1208 22
R1209 22
C1215 0.1u 25V Z
R1210 22
R1214 100
R1218 22
R1215 100
R1216 100
R1211 100
R1217 100
R1223 0
R1240 100
C1216 0.1u 25V Z
C1203 4.7u 6.3V CKZ
SPLS
SPRS
HGO
REV
GSPU
U/D
GCK
POWER
GSPD
OEM_INV
OEM
DL_EN
DL_DR
DL_CK
GND
VDD
DL_IN7
DL_IN6
DL_IN5
DL_IN4
DL_IN3
DL_IN2
DL_IN1
DL_IN0
TEST8
TEST7
TEST6
TEST5
OFL2
VLS
VGL
VEE
GSP1
VSH3.3V
NC
GLBR
GCK
POWER
GSP2
VGH
CSCOM

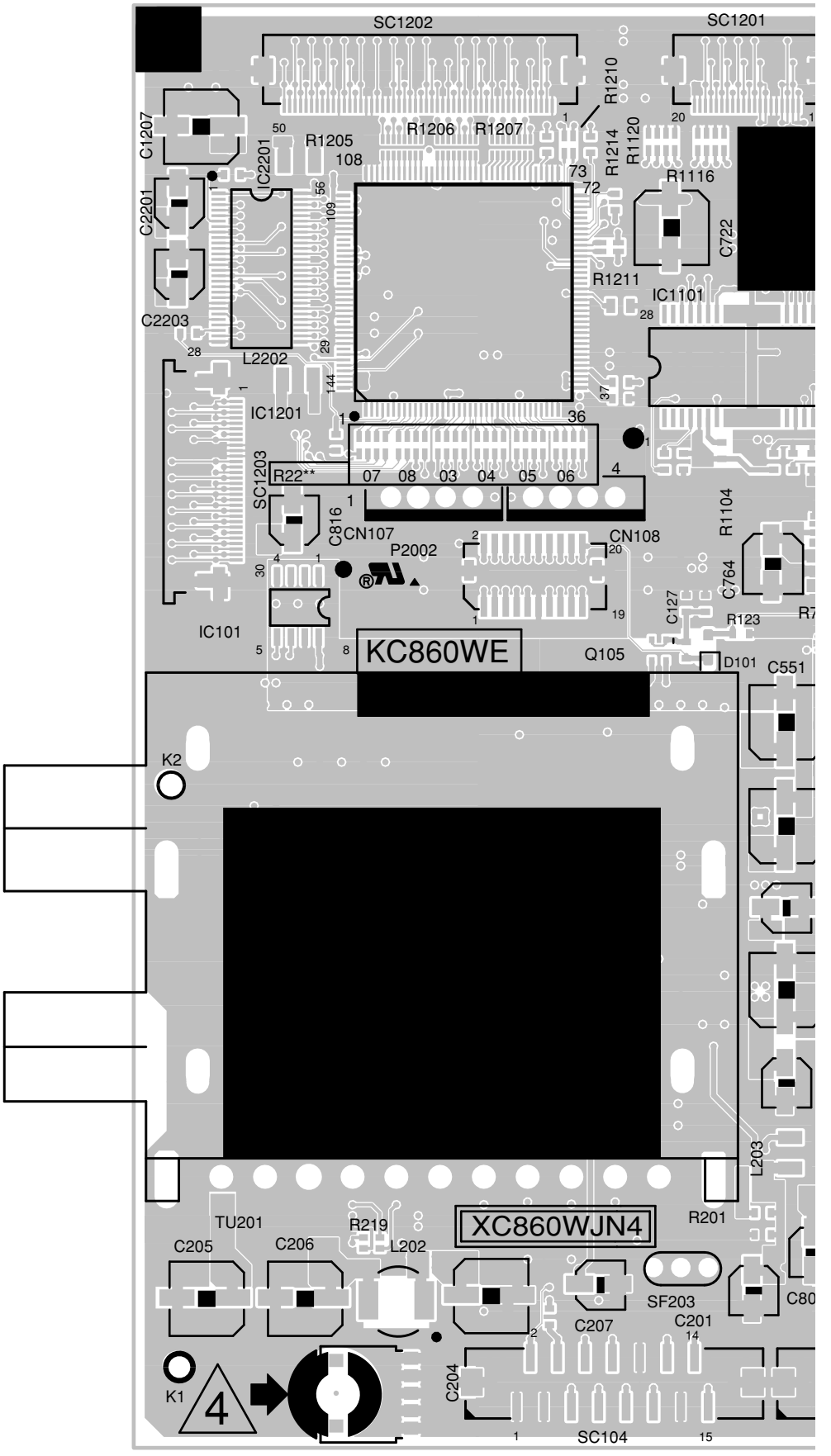
## ■ OPERATION Unit



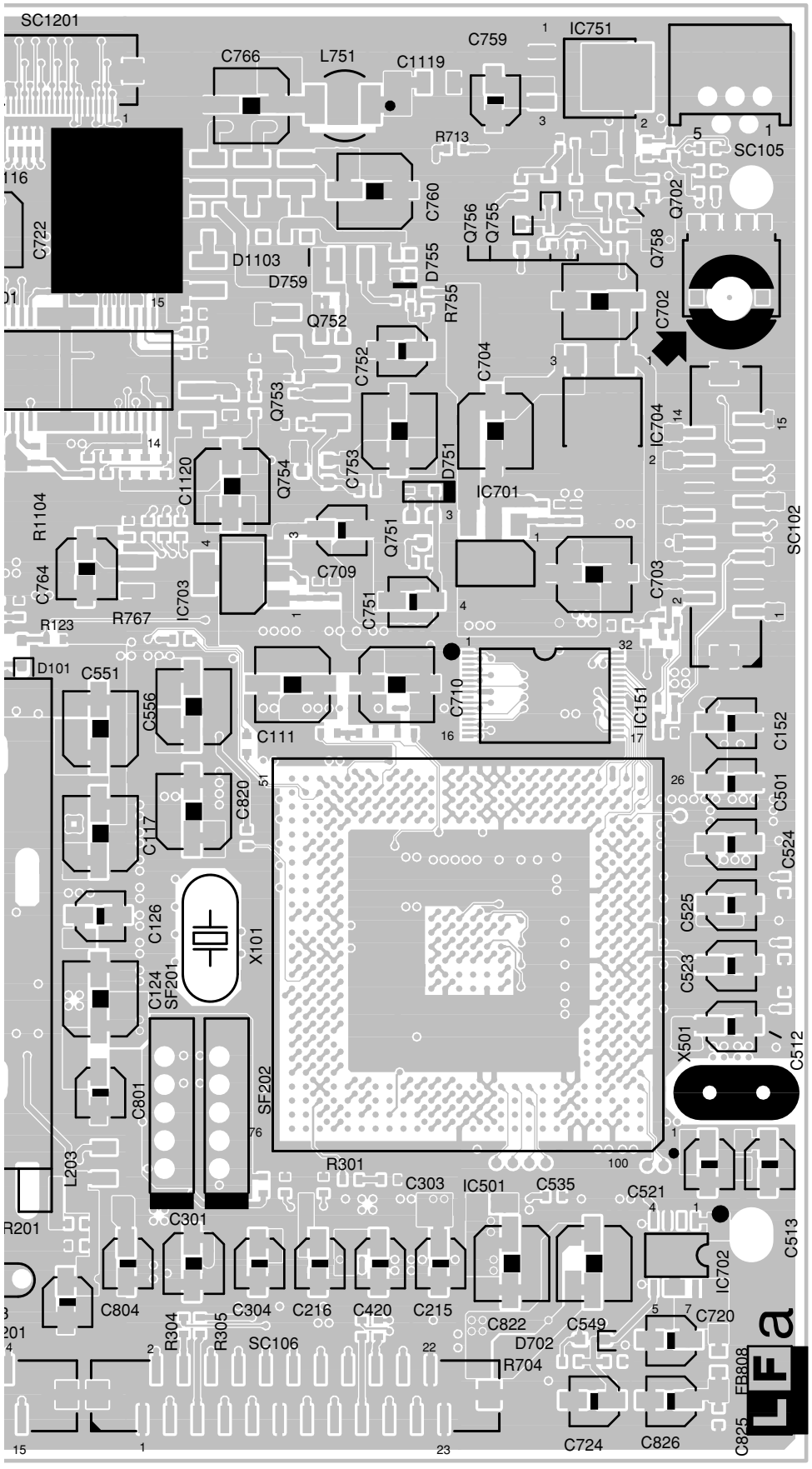
## ■ R/C, LED Unit


LED UNIT
DUNTKC859WE
(QPWBFC859WJ)
POW
R4001
330
R4002
680
STBY
D4001
PXA014WJ
Q4001
KRC104S
Q4002
KRC104S
Q4005
KRC104S
D4004
0640GE
RMC4001
UA034WJQZ
D4005
0640GE
C4001
10u
16V
AEA
R4006
100
SC4001
N0896RE
8 3.3Vstb
7 PC5V-A
6 IREM
5 GND
4 POWER_LED
3 OPC_LED
2 TIMER_LED
1 OPC
R4003
4.7K
D4002
PXA014WJ
R4007
330
Q4004
KRC104S
D4007
0640GE
12B
C4004
0.01u
50V
Z
C4003
100u
6.3V
AEA
D4008
RH-PXA088WJZZ
C4002
10u
16V
AEA
R4010
33K

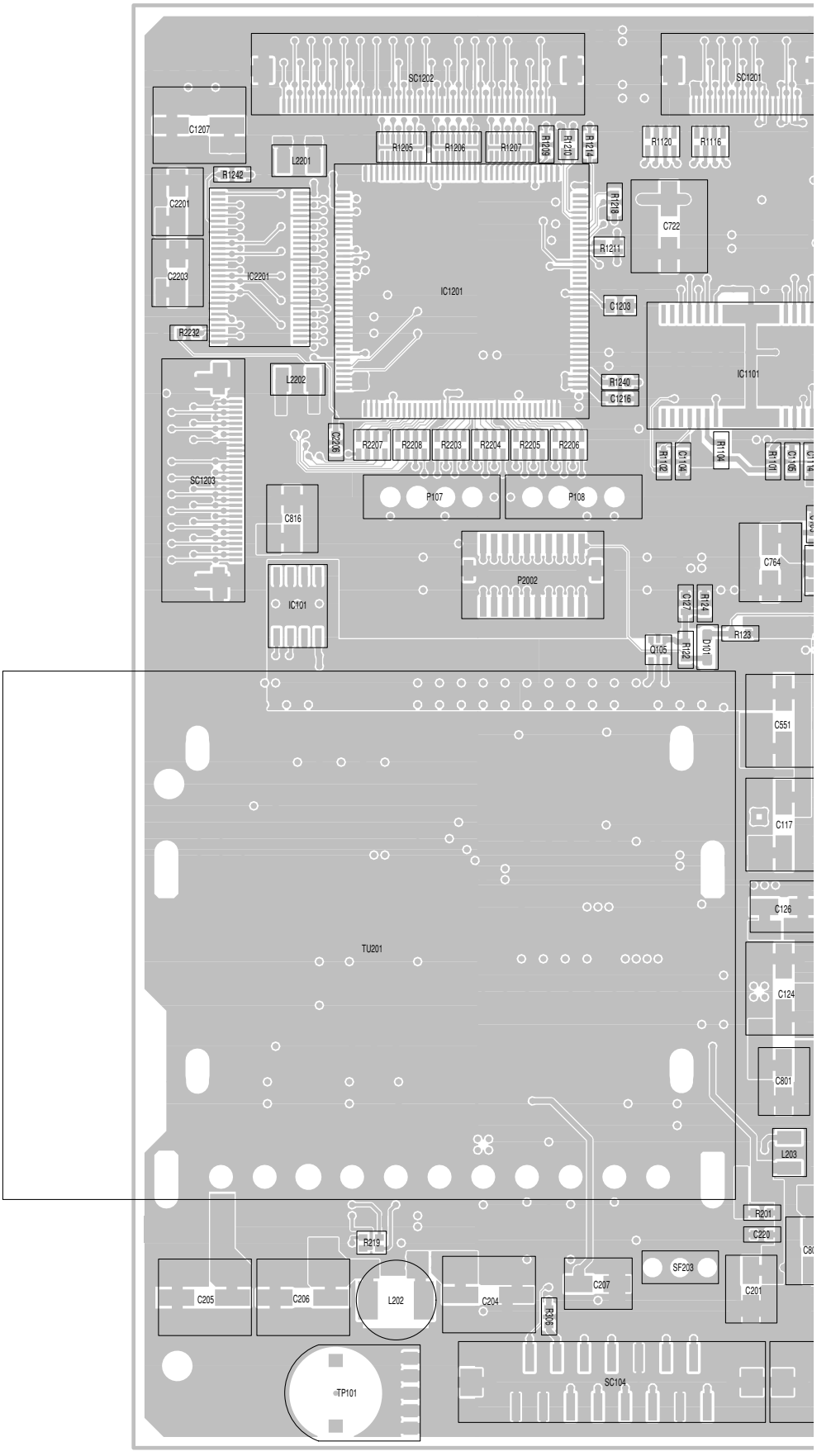
# PRINTED WIRING BOARD ASSEMBLIES



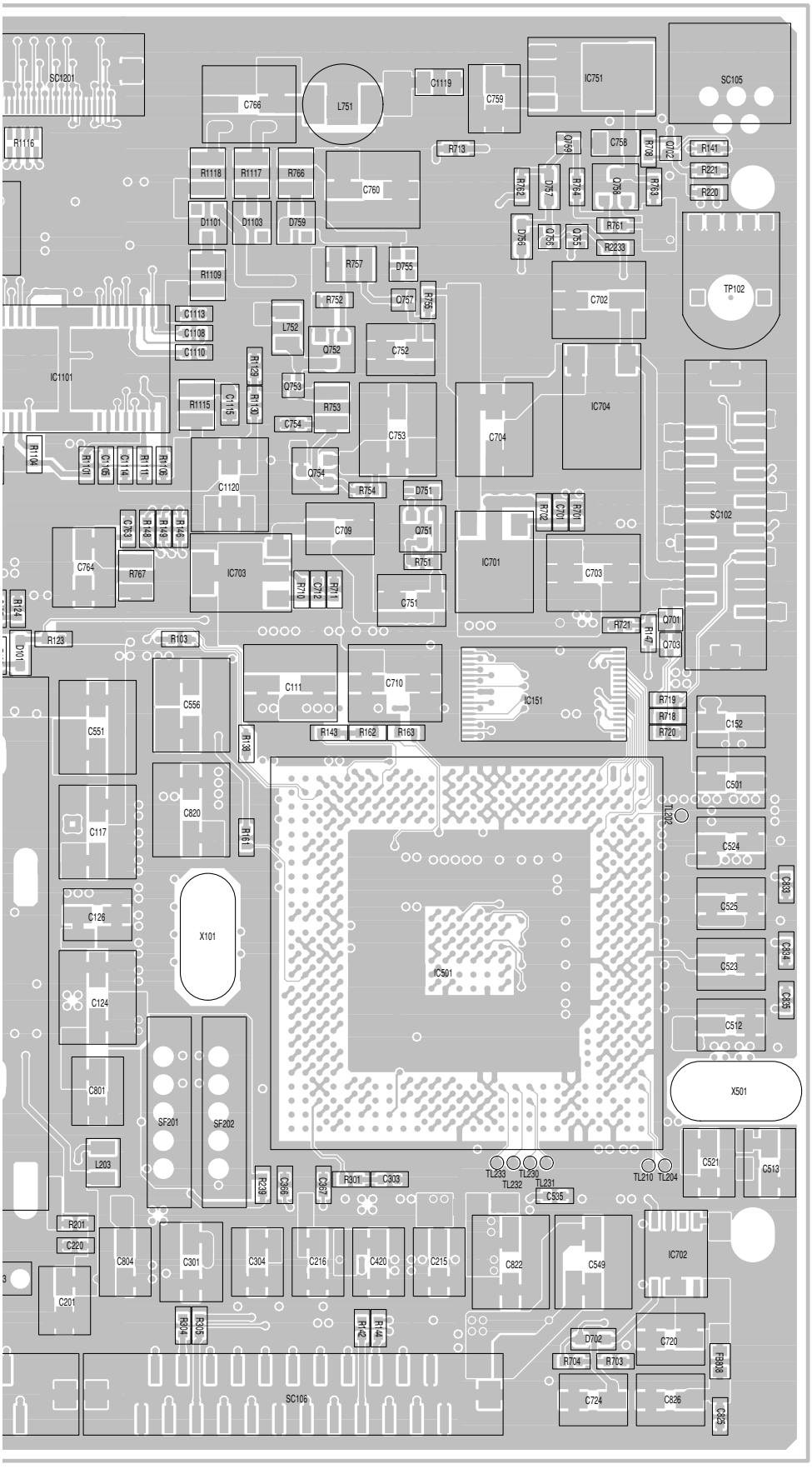

**MAIN Unit (Side-A)**



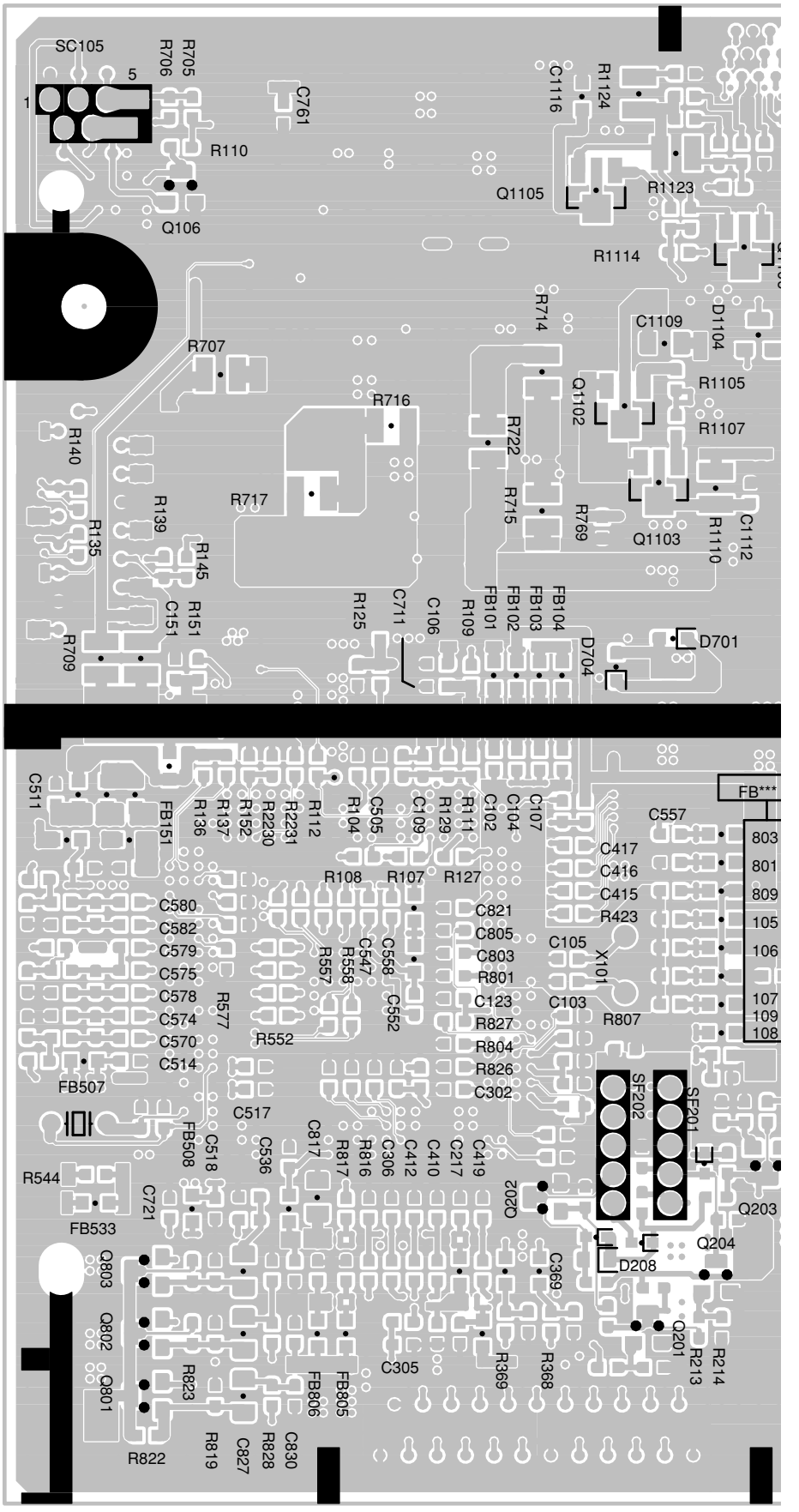

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|



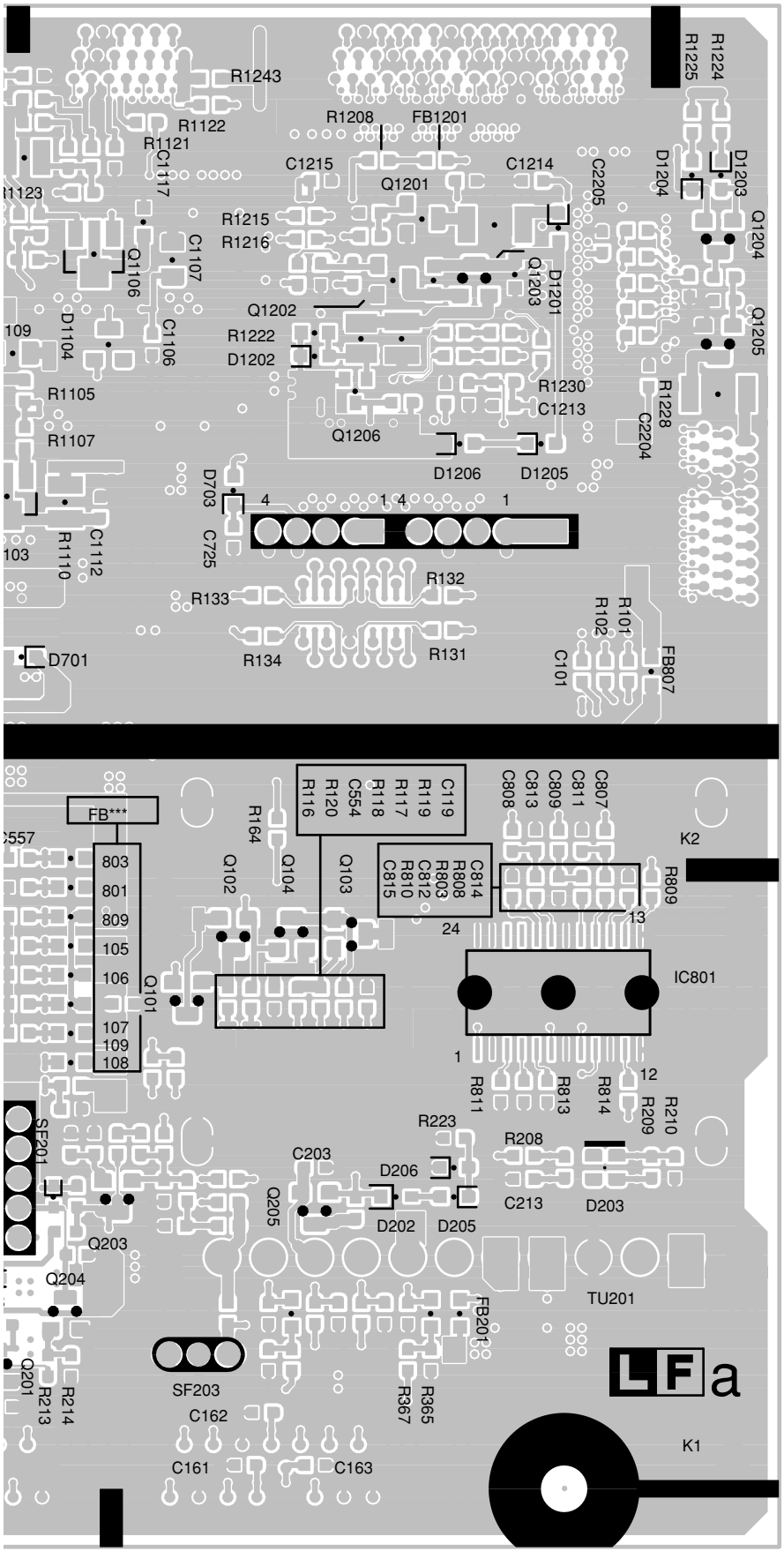

**MAIN Unit (Chip Parts Side-A)**



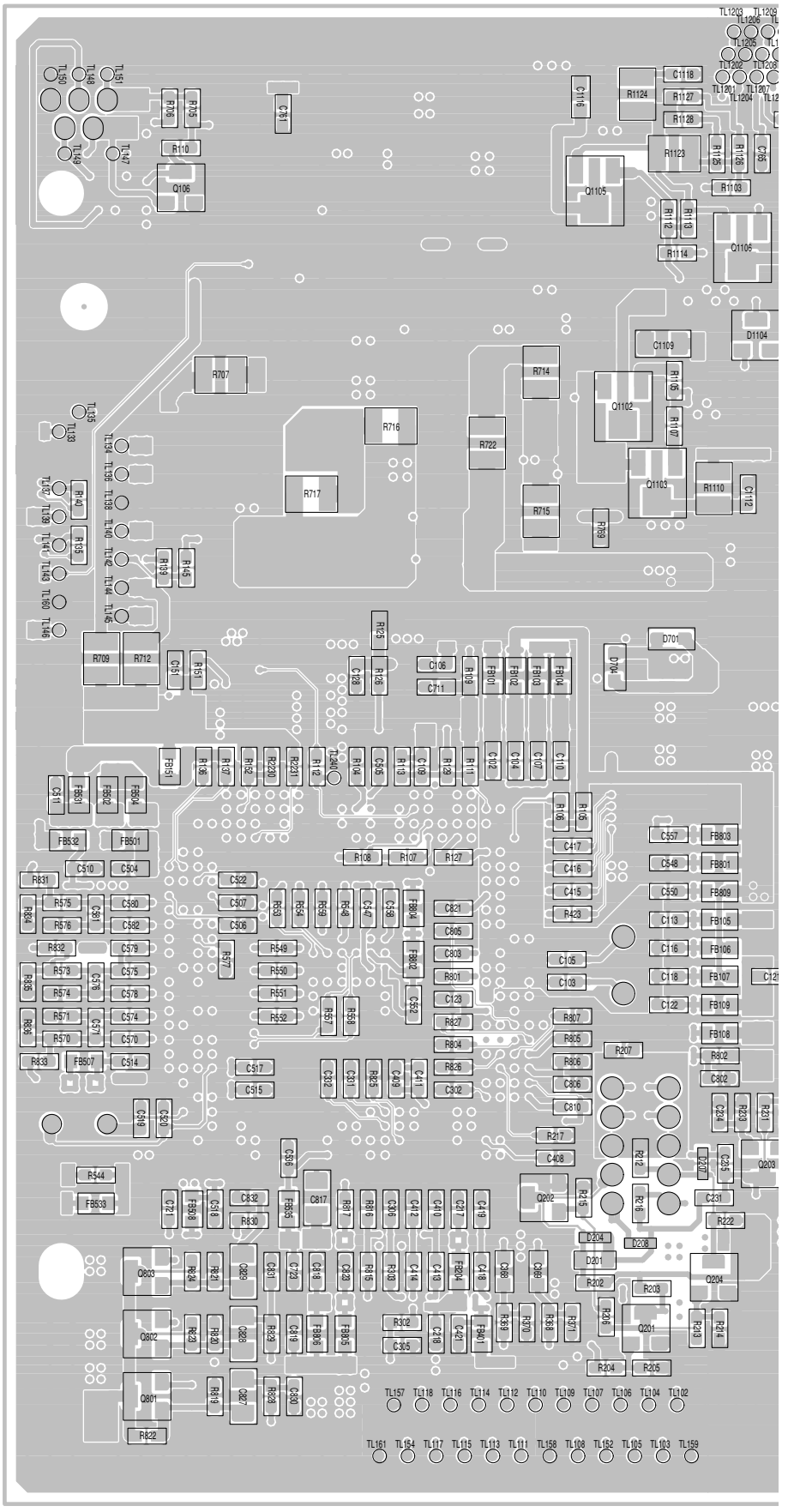

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|



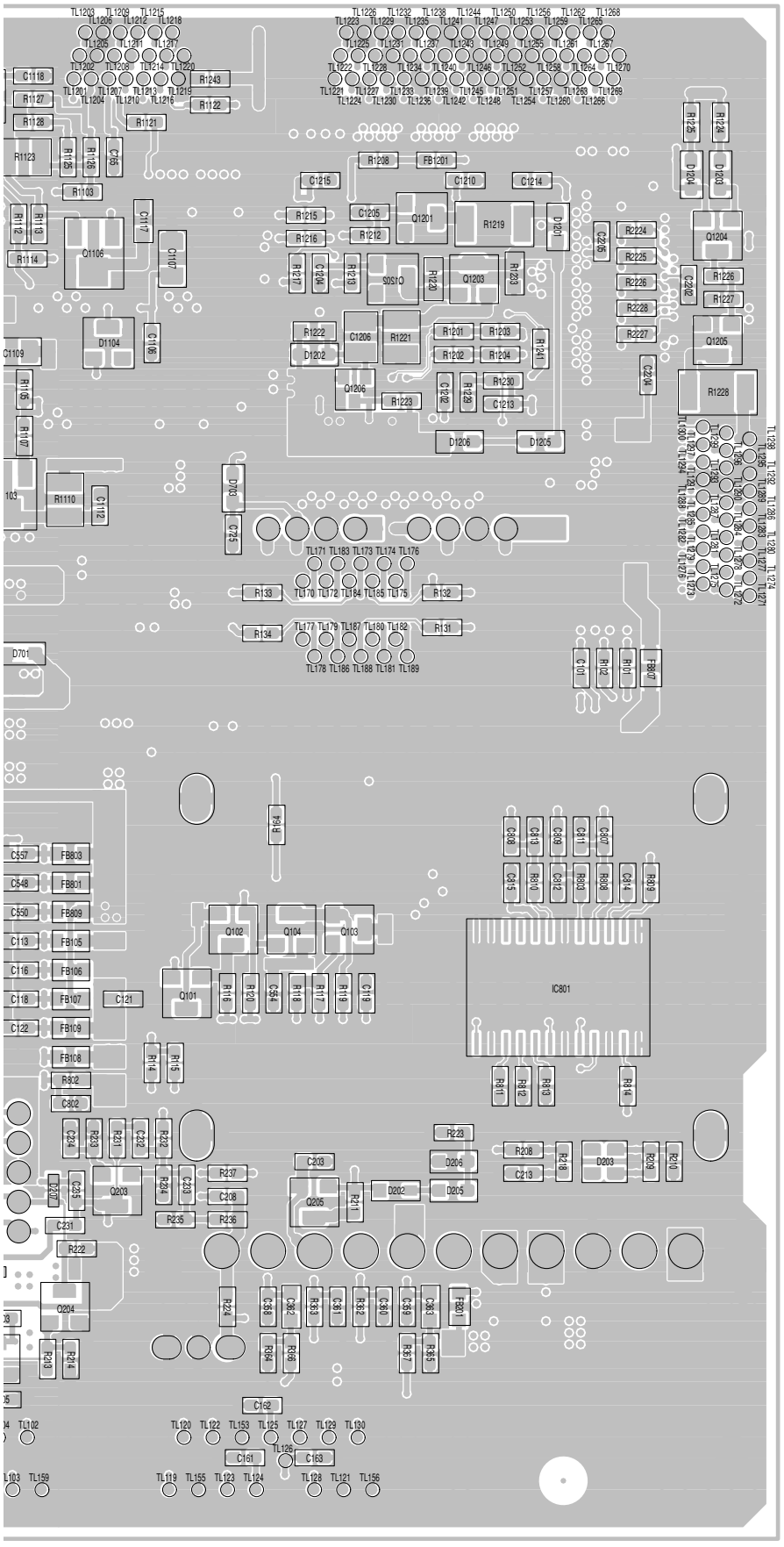

**MAIN Unit (Side-B)**



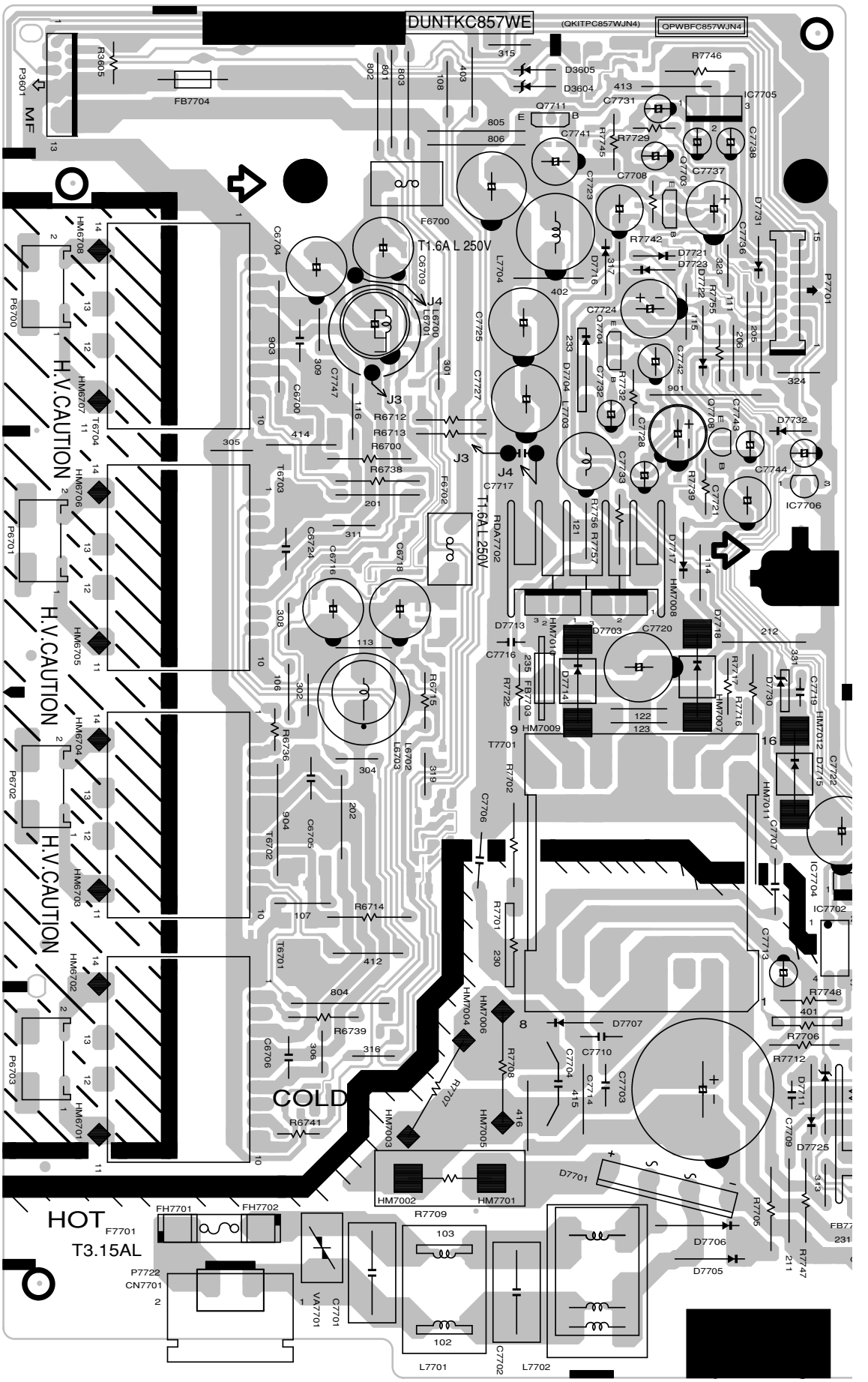

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|



**MAIN Unit (Chip Parts Side-B)**



| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|


DUNTKC857WE
(QKITPC857WJN4)
QPWBFC857WJN4
H.V.CAUTION
H.V.CAUTION
H.V.CAUTION
COLD
HOT
T1.6A L 250V
T1.6A L 250V
T3.15AL
F7701
P3601
MF
R3605
FB7704
F6700
J4
J3
J3
J4
F6702
RDA7702
T7701
T6704
T6703
T6702
T6701
P6700
P6701
P6702
P6703
HM6708
HM6707
HM6706
HM6705
HM6704
HM6703
HM6702
HM6701
HM7001
HM7002
HM7003
HM7004
HM7005
HM7006
HM7007
HM7008
HM7009
HM7010
HM7011
HM7012
IC7705
IC7706
IC7704
IC7702
FH7701
FH7702
P7722
CN7701
VA7701
C7701
C7702
L7701
L7702
D7701
D7705
D7706
P7701
D3605
D3604
Q7711
F6704
L7704
L7703
L6700
L6701
L6702
L6703
L7705
L7706
L7707
L7708
L7709
L7710
L7711
L7712
L7713
L7714
L7715
L7716
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L7733
L7734
L7735
L7736
L7737
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L7745
L7746
L7747
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L7750
L7751
L7752
L7753
L7754
L7755
L7756
L7757
L7758
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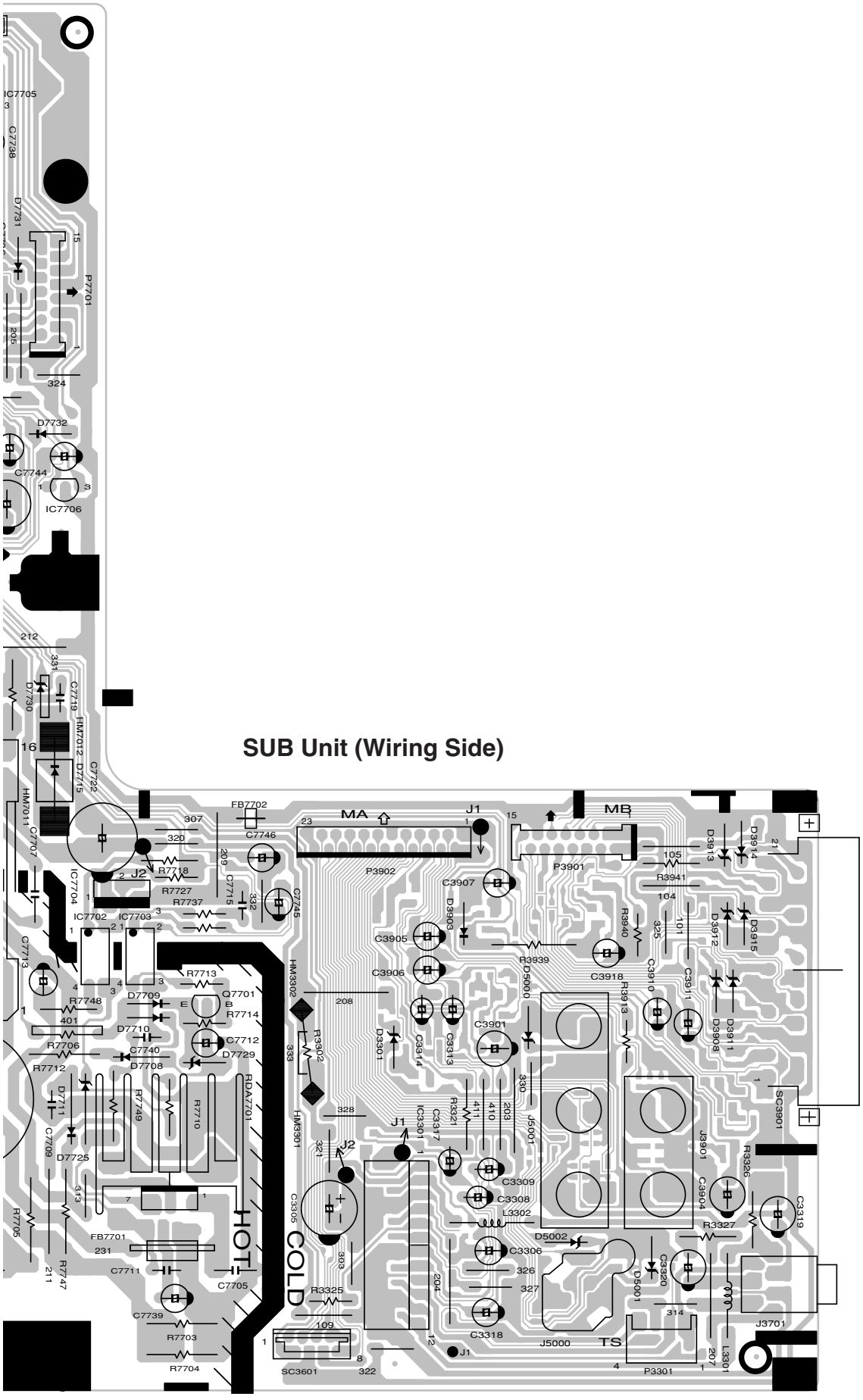
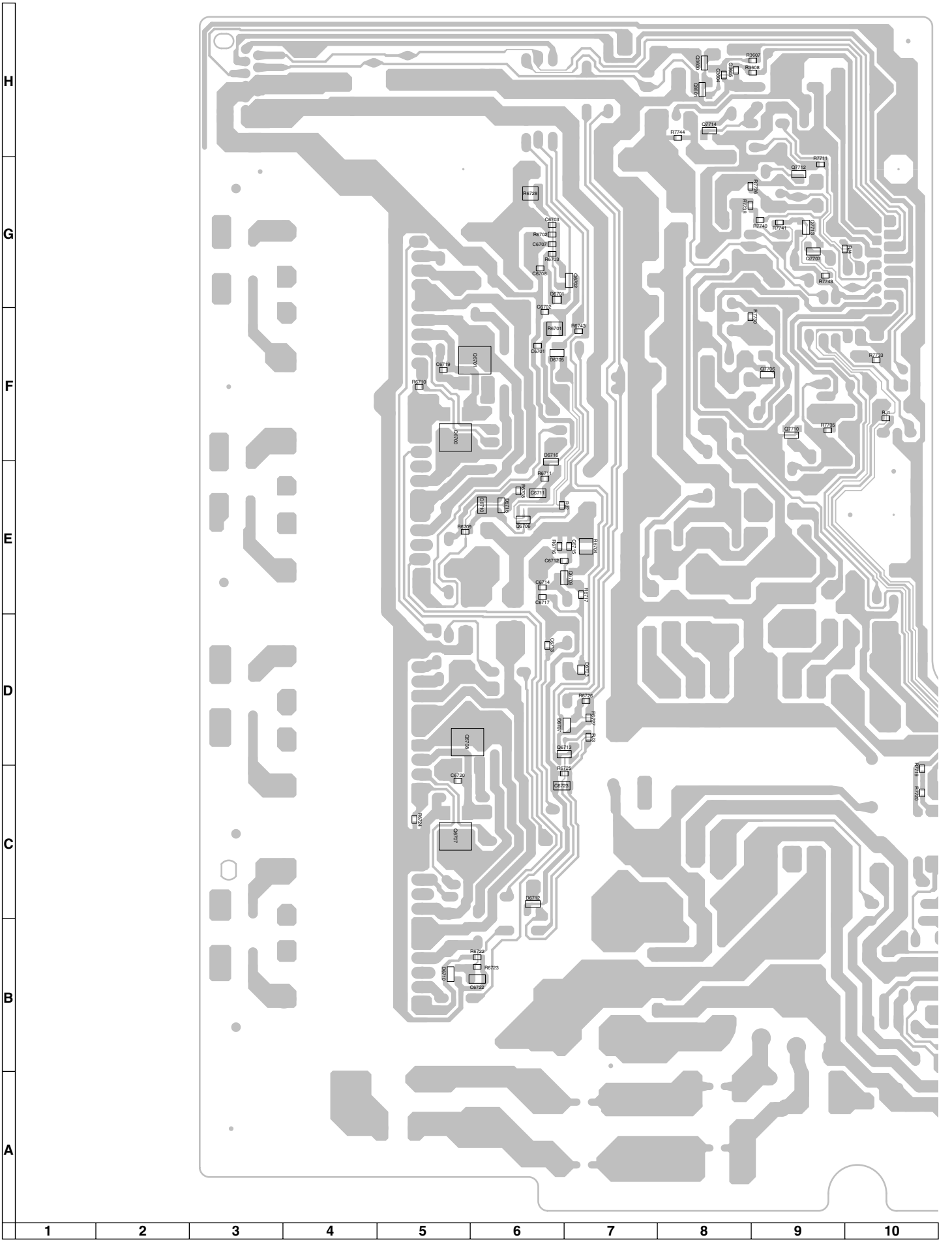
## SUB Unit (Wiring Side)




| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|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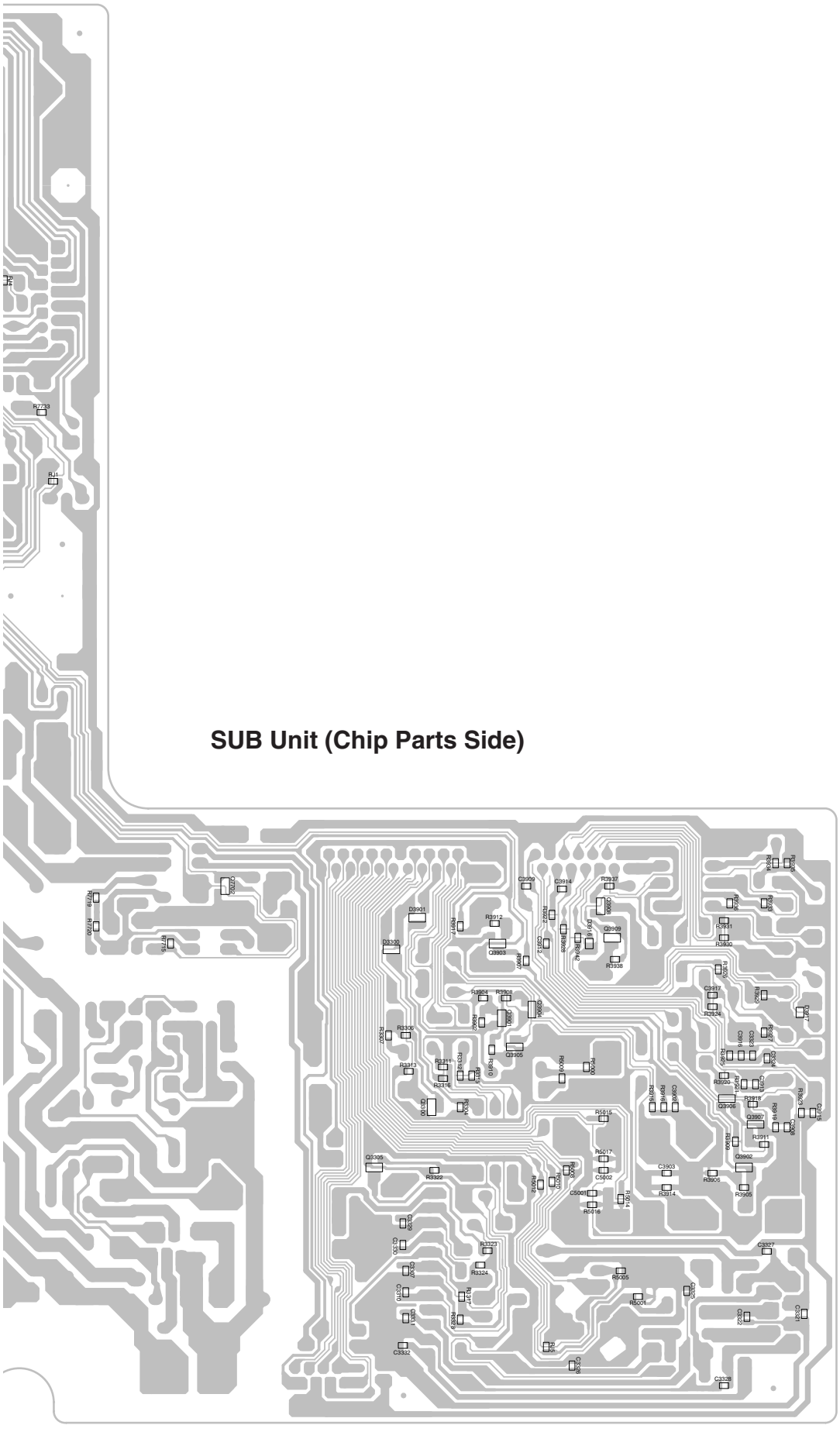
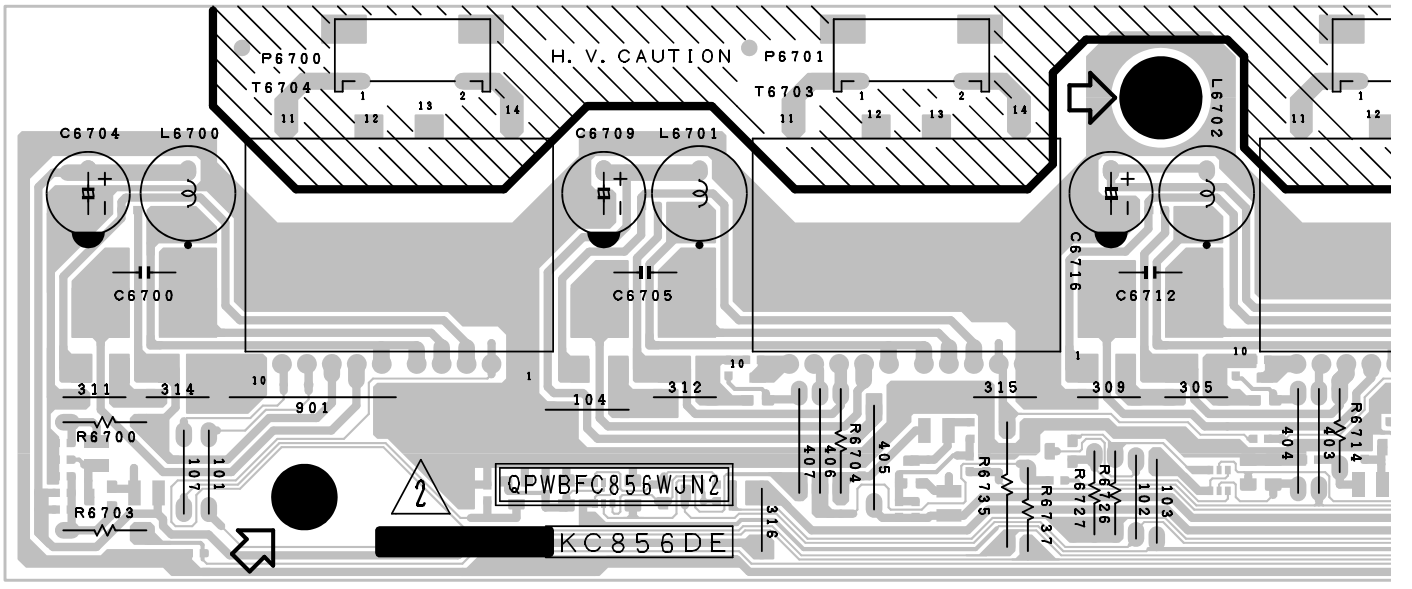
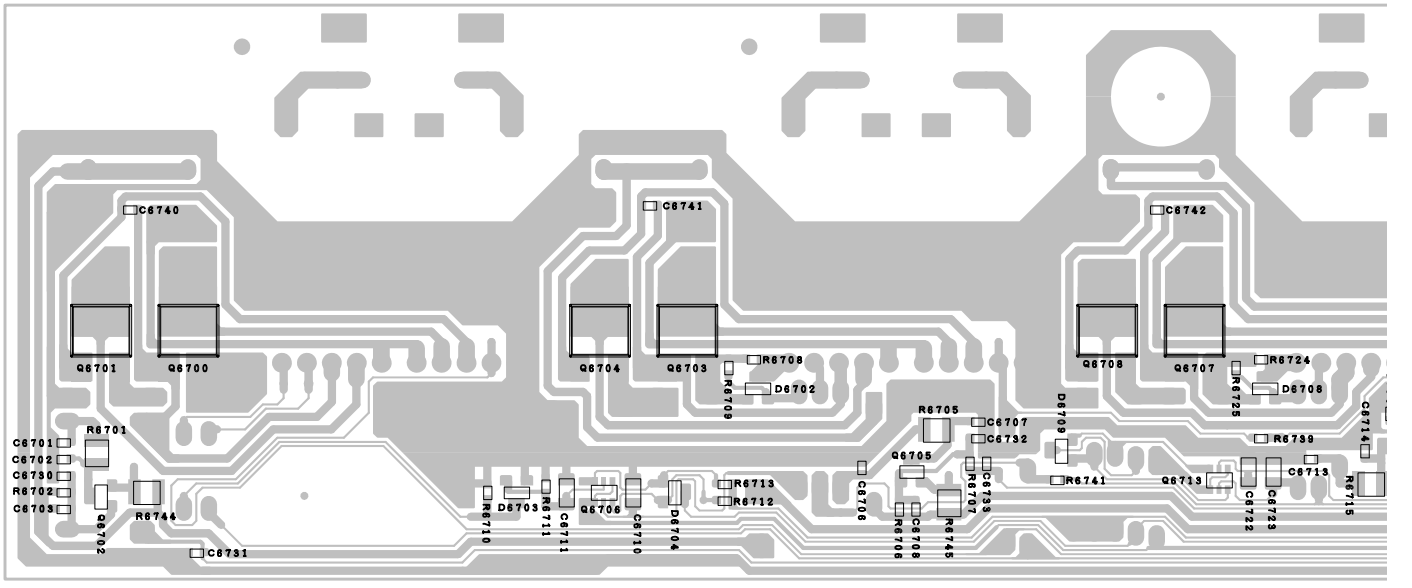
## SUB Unit (Chip Parts Side)



| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

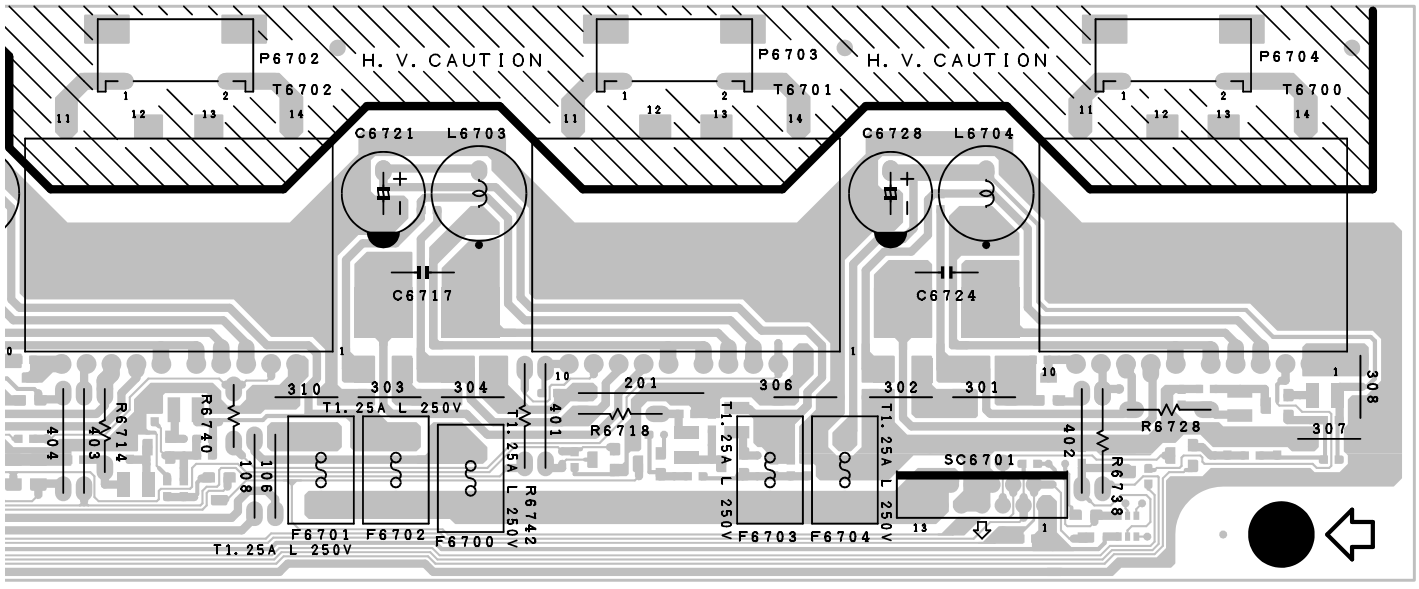


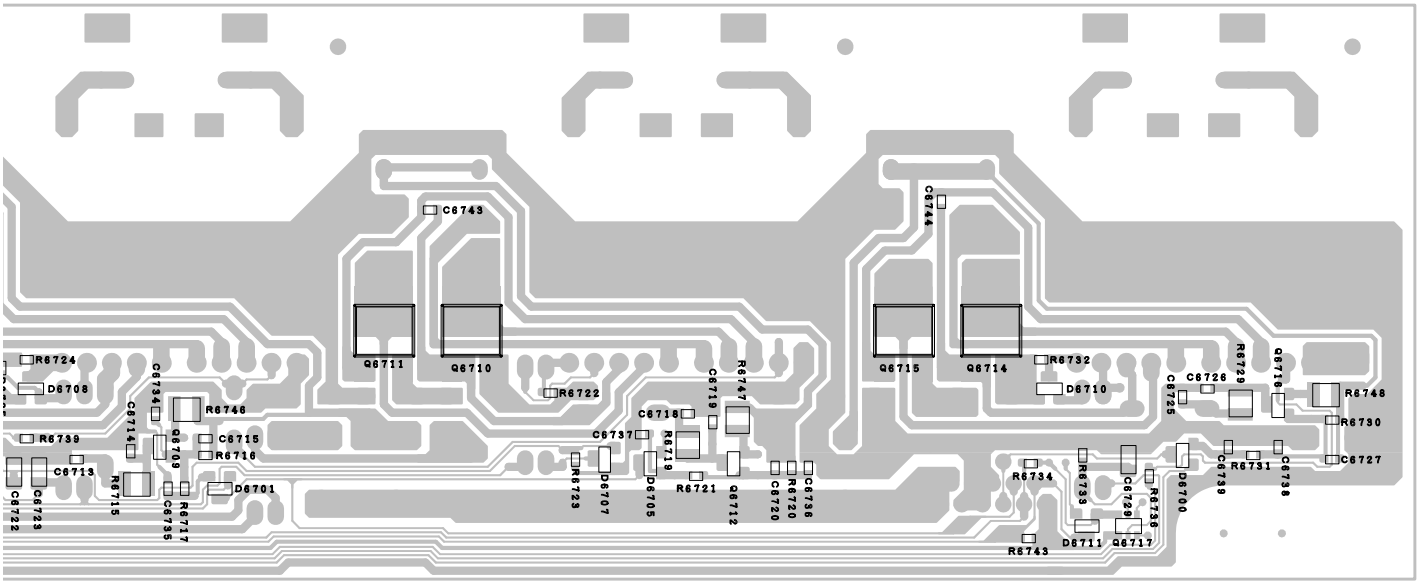

**INVERTER Unit (Wiring Side)**



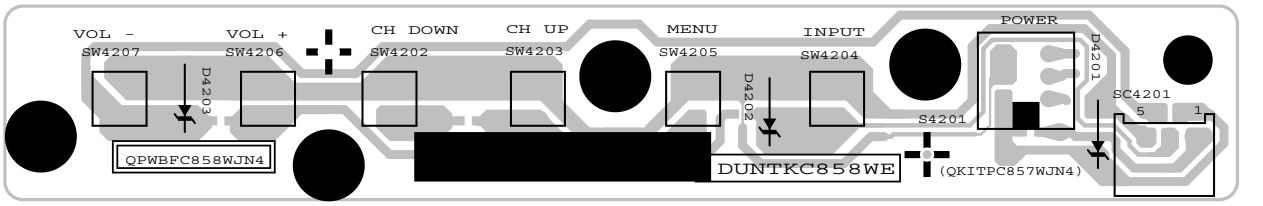

**INVERTER Unit (Chip Parts Side)**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|

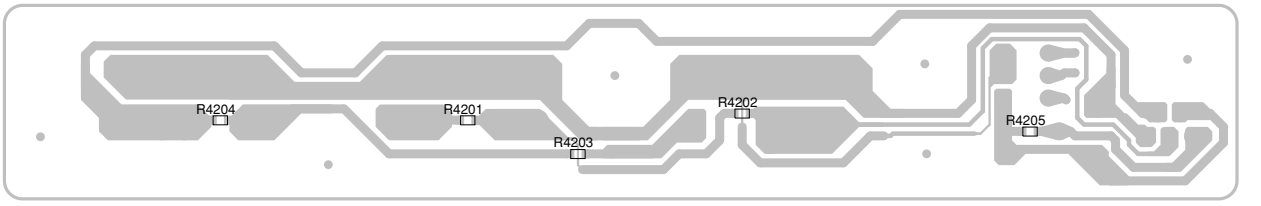


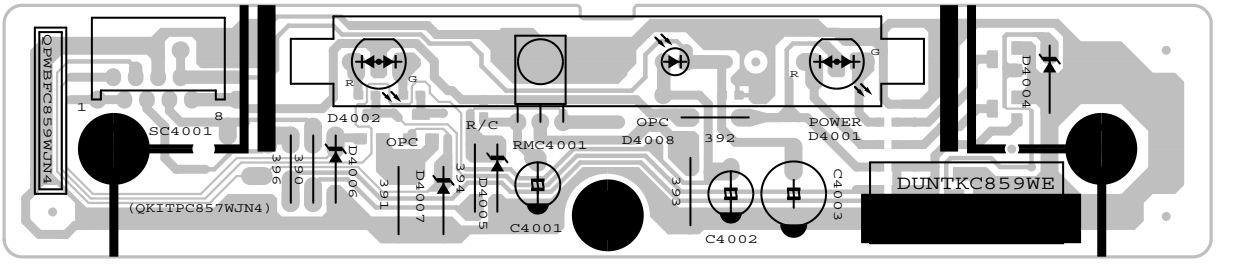

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|



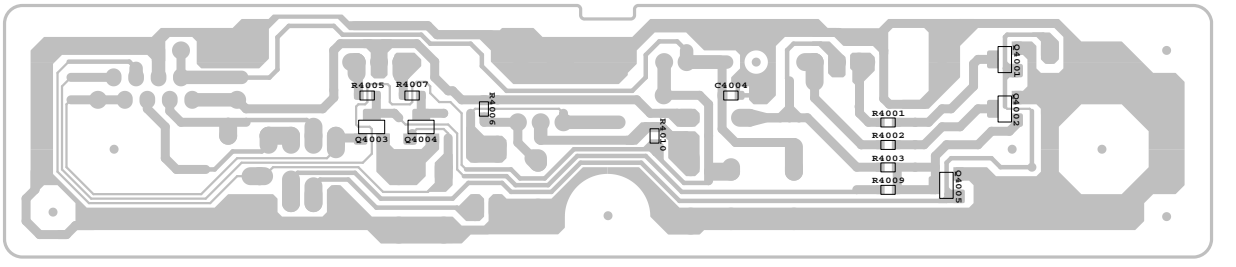

**OPERATION Unit (Wiring Side)**




**OPERATION Unit (Chip Parts Side)**




**R/C, LED Unit (Wiring Side)**




**R/C, LED Unit (Chip Parts Side)**

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|

# PARTS LIST

## PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by ⚠ and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does no have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

### "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

## PRINTED WIRING BOARD ASSEMBLIES
## *(NOT REPLACEMENT ITEM)*

| | | | |
|---|---|---|---|
| DUNTKC856FM01 | – | INVERTER Unit | — |
| DUNTKC857WE04 | – | SUB Unit | — |
| DUNTKC858WE04 | – | OPERATION Unit | — |
| DUNTKC859WE04 | – | R/C, LED Unit | — |
| DUNTKC860FM03 | – | MAIN Unit | — |

## LCD PANEL

***NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.***

| | | | |
|---|---|---|---|
| RLCDTA025WJZZ | J | 20" LCD Panel Unit | DB |

## DUNTKC856FM01
## INVERTER UNIT

### TRANSISTORS

| | | | | |
|---|---|---|---|---|
| Q6700 | VS2SC5886A+-1Y | J | 2SC5886A | AD |
| Q6701 | VS2SC5886A+-1Y | J | 2SC5886A | AD |
| Q6702 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q6703 | VS2SC5886A+-1Y | J | 2SC5886A | AD |
| Q6704 | VS2SC5886A+-1Y | J | 2SC5886A | AD |
| Q6705 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q6706 | VSUPA606T//-1Y | J | UPA606T | AD |
| Q6707 | VS2SC5886A+-1Y | J | 2SC5886A | AD |
| Q6708 | VS2SC5886A+-1Y | J | 2SC5886A | AD |
| Q6709 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q6710 | VS2SC5886A+-1Y | J | 2SC5886A | AD |
| Q6711 | VS2SC5886A+-1Y | J | 2SC5886A | AD |
| Q6712 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q6713 | VSUPA606T//-1Y | J | UPA606T | AD |
| Q6714 | VS2SC5886A+-1Y | J | 2SC5886A | AD |
| Q6715 | VS2SC5886A+-1Y | J | 2SC5886A | AD |
| Q6716 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q6717 | VSUPA606T//-1Y | J | UPA606T | AD |

### DIODES

| | | | | |
|---|---|---|---|---|
| D6700 | VHDDAN202K/-1Y | J | Diode | AB |
| D6701 | VHDDAN202K/-1Y | J | Diode | AB |
| D6702 | VHDMA157A//-1Y | J | Diode | AC |
| D6703 | VHDMA157A//-1Y | J | Diode | AC |
| D6704 | VHDDAN202K/-1Y | J | Diode | AB |
| D6705 | VHDDAN202K/-1Y | J | Diode | AB |
| D6707 | VHDMA157A//-1Y | J | Diode | AC |
| D6708 | VHDMA157A//-1Y | J | Diode | AC |
| D6709 | VHDDAN202K/-1Y | J | Diode | AB |
| D6710 | VHDMA157A//-1Y | J | Diode | AC |
| D6711 | VHDDAN202K/-1Y | J | Diode | AB |

### COILS

| | | | | |
|---|---|---|---|---|
| L6700 | RCiLPA373WJZZ | J | Coil | AC |
| L6701 | RCiLPA373WJZZ | J | Coil | AC |
| L6702 | RCiLPA373WJZZ | J | Coil | AC |
| L6703 | RCiLPA373WJZZ | J | Coil | AC |
| L6704 | RCiLPA373WJZZ | J | Coil | AC |

### TRANSFORMERS

| | | | |
|---|---|---|---|
| T6700 | RTRNZA075WJZZ | S | Transformer |
| T6701 | RTRNZA075WJZZ | S | Transformer |
| T6702 | RTRNZA075WJZZ | S | Transformer |
| T6703 | RTRNZA075WJZZ | S | Transformer |
| T6704 | RTRNZA075WJZZ | S | Transformer |

### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C6700 | RC-FZA116WJZZ | S | 0.27 | 250V | Film | |
| C6703 | VCKYCY1CB683KY | J | 0.068 | 16V | Ceramic | AC |
| C6704 | RC-EZA465WJZZ | J | 1000 | 16V | Electrolytic | AE |
| C6705 | RC-FZA116WJZZ | S | 0.27 | 250V | Film | |
| C6708 | VCKYCY1CB683KY | J | 0.068 | 16V | Ceramic | AC |
| C6709 | RC-EZA465WJZZ | J | 1000 | 16V | Electrolytic | AE |
| C6710 | RC-KZ0072TAZZY | J | 1 | 25V | Ceramic | AC |
| C6711 | RC-KZ0072TAZZY | J | 1 | 25V | Ceramic | AC |
| C6712 | RC-FZA116WJZZ | S | 0.27 | 250V | Film | |
| C6715 | VCKYCY1CB683KY | J | 0.068 | 16V | Ceramic | AC |
| C6716 | RC-EZA465WJZZ | J | 1000 | 16V | Electrolytic | AE |
| C6717 | RC-FZA116WJZZ | J | 0.27 | 250V | Film | |
| C6720 | VCKYCY1CB333KY | J | 0.033 | 16V | Ceramic | AA |
| C6721 | RC-EZA465WJZZ | J | 1000 | 16V | Electrolytic | AE |
| C6722 | RC-KZ0072TAZZY | J | 1 | 25V | Ceramic | AC |
| C6723 | RC-KZ0072TAZZY | J | 1 | 25V | Ceramic | AC |
| C6724 | RC-FZA116WJZZ | S | 0.27 | 250V | Film | |
| C6727 | VCKYCY1CB333KY | J | 0.033 | 16V | Ceramic | AA |
| C6728 | RC-EZA465WJZZ | J | 1000 | 16V | Electrolytic | AE |
| C6729 | RC-KZ0072TAZZY | J | 1 | 25V | Ceramic | AC |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R6700 | VRD-RA2EE182JY | J | 1.8k | 1/4W | Carbon | AA |
| R6701 | VRS-TW2ED122JY | J | 1.2k | 1/4W | Metal Oxide | AA |
| R6702 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R6703 | VRD-RA2BE333JY | J | 33k | 1/8W | Carbon | AA |
| R6704 | VRD-RA2EE182JY | J | 1.8k | 1/4W | Carbon | AA |
| R6705 | VRS-TW2ED122JY | J | 1.2k | 1/4W | Metal Oxide | AA |
| R6706 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R6707 | VRS-CY1JF333JY | J | 33k | 1/16W | Metal Oxide | AA |
| R6708 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R6709 | VRS-CY1JF824JY | J | 820k | 1/16W | Metal Oxide | AA |
| R6710 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R6711 | VRS-CY1JF824JY | J | 820k | 1/16W | Metal Oxide | AA |
| R6712 | VRS-CY1JF562JY | J | 5.6k | 1/16W | Metal Oxide | AA |
| R6713 | VRS-CY1JF562JY | J | 5.6k | 1/16W | Metal Oxide | AA |
| R6714 | VRD-RA2EE182JY | J | 1.8k | 1/4W | Carbon | AA |
| R6715 | VRS-TW2ED122JY | J | 1.2k | 1/4W | Metal Oxide | AA |
| R6716 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R6717 | VRS-CY1JF333JY | J | 33k | 1/16W | Metal Oxide | AA |
| R6718 | VRD-RA2EE182JY | J | 1.8k | 1/4W | Carbon | AA |
| R6719 | VRS-TW2ED122JY | J | 1.2k | 1/4W | Metal Oxide | AA |
| R6720 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R6721 | VRS-CY1JF333JY | J | 33k | 1/16W | Metal Oxide | AA |
| R6722 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R6723 | VRS-CY1JF824JY | J | 820k | 1/16W | Metal Oxide | AA |
| R6724 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R6725 | VRS-CY1JF824JY | J | 820k | 1/16W | Metal Oxide | AA |
| R6726 | VRD-RA2BE562JY | J | 5.6k | 1/8W | Carbon | AA |
| R6727 | VRD-RA2BE562JY | J | 5.6k | 1/8W | Carbon | AA |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

# DUNTKC856FM01
## INVERTER UNIT (Continued)

| | | | | | | |
|---|---|---|---|---|---|---|
| R6728 | VRD-RA2EE182JY | J | 1.8k | 1/4W | Carbon | AA |
| R6729 | VRS-TW2ED122JY | J | 1.2k | 1/4W | Metal Oxide | AA |
| R6730 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R6731 | VRS-CY1JF333JY | J | 33k | 1/16W | Metal Oxide | AA |
| R6732 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R6733 | VRS-CY1JF824JY | J | 820k | 1/16W | Metal Oxide | AA |
| R6734 | VRS-CY1JF562JY | J | 5.6k | 1/16W | Metal Oxide | AA |
| R6743 | VRS-CY1JF563JY | J | 56k | 1/16W | Metal Oxide | AA |
| R6744 | VRS-TW2ED561JY | J | 560 | 1/4W | Metal Oxide | AA |
| R6745 | VRS-TW2ED561JY | J | 560 | 1/4W | Metal Oxide | AA |
| R6746 | VRS-TW2ED561JY | J | 560 | 1/4W | Metal Oxide | AA |
| R6747 | VRS-TW2ED561JY | J | 560 | 1/4W | Metal Oxide | AA |
| R6748 | VRS-TW2ED561JY | J | 560 | 1/4W | Metal Oxide | AA |

### MISCELLANEOUS PARTS

| | | | | | |
|---|---|---|---|---|---|
| ⚠ F6700 | QFS-ZA002WJZZ | J | Fuse, 1.25A/250V | | AD |
| ⚠ F6701 | QFS-ZA002WJZZ | J | Fuse, 1.25A/250V | | AD |
| ⚠ F6702 | QFS-ZA002WJZZ | J | Fuse, 1.25A/250V | | AD |
| ⚠ F6703 | QFS-ZA002WJZZ | J | Fuse, 1.25A/250V | | AD |
| ⚠ F6704 | QFS-ZA002WJZZ | J | Fuse, 1.25A/250V | | AD |
| P6700 | QPLGNA391WJZZ | J | Plug, 2-pin | | AD |
| P6701 | QPLGNA391WJZZ | J | Plug, 2-pin | | AD |
| P6702 | QPLGNA391WJZZ | J | Plug, 2-pin | | AD |
| P6703 | QPLGNA391WJZZ | J | Plug, 2-pin | | AD |
| P6704 | QPLGNA391WJZZ | J | Plug, 2-pin | | AD |
| SC6701 | QSOCZ1338CEZZ | J | Socket, 13-pin | | AD |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

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## SUB UNIT

### INTEGRATED CIRCUITS

| | | | | |
|---|---|---|---|---|
| IC3301 | VHiAN17821A-1 | J | AN17821A | AH |
| IC7701 | VHiSTRW67652E | J | I.C. | AL |
| ⚠ IC7702 | RH-FXA003WJZZ | J | PC123Y82 | AD |
| ⚠ IC7703 | RH-FXA003WJZZ | J | PC123Y82 | AD |
| IC7704 | VHiSE005N++-F | S | I.C. | AF |
| IC7705 | VHiKA7809AP-1 | J | KIA7809API | AE |
| IC7706 | VHiPQ050ES1-1+ | J | PQ050ES1MXP | AE |

### TRANSISTORS

| | | | | |
|---|---|---|---|---|
| Q3305 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q3600 | VSKRC102S//-1Y | J | KRC102S | AA |
| Q3601 | VSKRC102S//-1Y | J | KRC102S | AA |
| Q3901 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3902 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3903 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q3904 | VS2SD1306-E-1Y | J | 2SD1306-E | AC |
| Q3905 | VS2SD1306-E-1Y | J | 2SD1306-E | AC |
| Q3906 | VS2SD1306-E-1Y | J | 2SD1306-E | AC |
| Q3907 | VS2SD1306-E-1Y | J | 2SD1306-E | AC |
| Q3908 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3909 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q7701 | VS2SA1013//1E+ | J | 2SA1013 | AD |
| Q7702 | VSKRC104S//-1Y | J | KRC104S | AA |
| Q7703 | VS2SB1443TV1E+ | J | 2SB1443TV | AE |
| Q7704 | VS2SB1443TV1E+ | J | 2SB1443TV | AE |
| Q7706 | VSKRC101S//-1Y | S | KRC101S | AA |
| Q7707 | VSKRC104S//-1Y | J | KRC104S | AA |
| Q7708 | VS2SC2235Y/1E+ | J | 2SC2235Y | AE |
| Q7710 | VSKRA102S//-1Y | J | KRA102S | AA |
| Q7711 | VS2SB1443TV1E+ | J | 2SB1443TV | AE |
| Q7712 | VSKRC104S//-1Y | J | KRC104S | AA |
| Q7713 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q7714 | VSKRC102S//-1Y | J | KRA102S | AA |

### DIODES

| | | | | |
|---|---|---|---|---|
| D3300 | VHDDAN202K/-1Y | J | Diode | AB |
| D3604 | RH-EX0652GEZZY | J | Zener Diode, 18V | AB |
| D3605 | RH-EX0652GEZZY | J | Zener Diode, 18V | AB |
| D3901 | VHDDAN202K/-1Y | J | Diode | AB |
| D3903 | VHD1SS119//-1Y | J | Diode | AA |
| D3908 | RH-EX0630GEZZY | J | Zener Diode, 9.1V | AA |
| D3911 | RH-EX0630GEZZY | J | Zener Diode, 9.1V | AA |
| D3912 | RH-EX0630GEZZY | J | Zener Diode, 9.1V | AA |
| D3913 | RH-EX0630GEZZY | J | Zener Diode, 9.1V | AA |
| D3914 | RH-EX0630GEZZY | J | Zener Diode, 9.1V | AA |
| D3915 | RH-EX0630GEZZY | J | Zener Diode, 9.1V | AA |
| D3916 | RH-EX0612GEZZY | J | Zener Diode | AB |
| D3917 | RH-EX1244CEZZY | J | Zener Diode | AB |
| D5000 | RH-EX0630GEZZY | J | Zener Diode, 9.1V | AA |
| D5001 | RH-EX0630GEZZY | J | Zener Diode, 9.1V | AA |
| D5002 | RH-EX0630GEZZY | J | Zener Diode, 9.1V | AA |
| D7701 | RH-DX0476CEZZ | J | Diode | AG |
| D7703 | VHDSF30JC6+1E | S | Diode | AG |
| D7705 | RH-DX0490CEZZY | J | Diode | AC |
| D7706 | RH-DX0490CEZZY | J | Diode | AC |
| D7707 | RH-DX0321CEZZY | J | Diode | AC |
| D7708 | RH-DX0066GEZZY | J | Diode | AC |
| D7709 | VHD1SS244//-1Y | J | Diode | AB |
| D7710 | VHD1SS244//-1Y | J | Diode | AB |
| D7711 | VHD1SS244//-1Y | J | Diode | AB |
| D7713 | VHDSF30JC6+1E | S | Diode | AG |
| D7714 | RH-DXA059WJZZ | S | Diode | AD |
| D7715 | RH-DX0461CEZZ | J | Diode | AG |
| D7716 | VHD10ELS4//-1Y | J | Diode | AD |
| D7717 | VHD10ELS4//-1Y | J | Diode | AD |
| D7718 | RH-DXA059WJZZ | S | Diode | AD |
| D7721 | VHD1SS119//-1Y | J | Diode | AA |
| D7722 | VHD1SS119//-1Y | J | Diode | AA |
| D7723 | VHD1SS119//-1Y | J | Diode | AA |
| D7725 | RH-EX0618GEZZY | J | Zener Diode, 6.2V | AB |

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## SUB UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| D7729 | RH-EX0640GEZZY | J | Zener Diode | AA |
| D7731 | VHD1SS119//-1Y | J | Diode | AA |
| D7732 | VHD1SS119//-1Y | J | Diode | AA |
| ⚠ VA7701 | RH-VXA022WJZZ | J | Varistor | AD |

### COILS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| L3301 | VP-CF3R3K0000Y | J | Peaking 3.3µH | AC |
| L3302 | VP-CF3R3K0000Y | J | Peaking 3.3µH | AC |
| ⚠ L7701 | RCiLFA161WJZZ | S | Coil | AD |
| ⚠ L7702 | RCiLFA162WJZZ | S | Coil | AD |
| L7703 | RCiLP0175CEZZ+ | J | Coil | AD |
| L7704 | RCiLPA308WJZZ | S | Coil | AD |

### TRANSFORMER

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| ⚠ T7701 | RTRNWA152WJZZ | S | Transformer | AL |

### CAPACITORS

| Ref. No. | Part No. | ★ | | | | Code |
|---|---|---|---|---|---|---|
| C3305 | VCEA0A1CW108M+ | J | 1000 | 16V | Electrolytic | AD |
| C3306 | VCEAEA1CW106M+ | J | 10 | 16V | Electrolytic | AB |
| C3307 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C3308 | VCEAEA1HW105M+ | J | 1 | 50V | Electrolytic | AB |
| C3309 | VCEAEA1HW105M+ | J | 1 | 50V | Electrolytic | AB |
| C3310 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C3313 | VCEAEA1HW225M+ | J | 2.2 | 50V | Electrolytic | AB |
| C3314 | VCEAEA1HW225M+ | J | 2.2 | 50V | Electrolytic | AB |
| C3317 | VCEAEA1HW225M+ | J | 2.2 | 50V | Electrolytic | AB |
| C3318 | VCEAEA1CW106M+ | J | 10 | 16V | Electrolytic | AB |
| C3319 | VCEAEA1CW476M+ | J | 47 | 16V | Electrolytic | AB |
| C3320 | VCEAEA1CW476M+ | J | 47 | 16V | Electrolytic | AB |
| C3321 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C3322 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C3323 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C3324 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C3325 | VCKYCY1CF104ZY | J | 0.1 | 16V | Ceramic | AA |
| C3326 | VCKYCY1CF104ZY | J | 0.1 | 16V | Ceramic | AA |
| C3327 | VCCCCY1HH221JY | J | 220p | 50V | Ceramic | AA |
| C3328 | VCCCCY1HH221JY | J | 220p | 50V | Ceramic | AA |
| C3604 | VCKYCY1HB332KY | J | 3300p | 50V | Ceramic | AA |
| C3605 | VCKYCY1HB332KY | J | 3300p | 50V | Ceramic | AA |
| C3901 | VCEAEA0JW107M+ | J | 100 | 6.3V | Electrolytic | AB |
| C3902 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C3903 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C3904 | VCEAEA1CW476M+ | J | 47 | 16V | Electrolytic | AB |
| C3905 | VCEAEA1CW106M+ | J | 10 | 16V | Electrolytic | AB |
| C3906 | VCEAEA1CW106M+ | J | 10 | 16V | Electrolytic | AB |
| C3907 | VCEAEA0JW476M+ | J | 47 | 6.3V | Electrolytic | AB |
| C3908 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C3909 | VCCCCY1HH331JY | J | 330p | 50V | Ceramic | AA |
| C3910 | VCEAEA1CW106M+ | J | 10 | 16V | Electrolytic | AB |
| C3911 | VCEAEA1CW106M+ | J | 10 | 16V | Electrolytic | AB |
| C3912 | VCCCCY1HH331JY | J | 330p | 50V | Ceramic | AA |
| C3913 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C3914 | VCCCCY1HH221JY | J | 220p | 50V | Ceramic | AA |
| C3915 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C3916 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C3917 | VCCCCY1HH221JY | J | 220p | 50V | Ceramic | AA |
| C3918 | VCEAEA1CW106M+ | J | 10 | 16V | Electrolytic | AB |
| C5001 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C5002 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| ⚠ C7701 | RC-FZA022WJZZ | J | 0.22 | 275V | Film | AD |
| ⚠ C7702 | RC-FZA022WJZZ | J | 0.22 | 275V | Film | AD |
| C7703 | RC-EZA556WJZZ | J | 150 | 400V | Electrolytic | AN |
| C7704 | RC-FZA180WJZZ | S | 0.1 | 580V | Film | AC |
| C7705 | RC-KZA305WJZZ | S | 560p | 2kV | Ceramic | AB |
| ⚠ C7706 | RC-KZ0105GEZZ | J | 2200p | 250V | Ceramic | AD |
| ⚠ C7707 | RC-KZ0103GEZZ | J | 1000p | 250V | Ceramic | AD |
| C7708 | VCEA4A1CN226M+ | S | 22 | 16V | Electrolytic | AB |
| C7709 | VCQYTA1HM152J+ | J | 1500p | 50V | Mylar | AA |
| C7711 | VCKYPA1HB471K+ | J | 470p | 50V | Ceramic | AA |
| C7712 | VCEA4A1VN476M+ | S | 47 | 35V | Electrolytic | AB |
| C7713 | VCEA4A1VN106M+ | S | 10 | 35V | Electrolytic | AB |
| C7715 | VCQYTA1HM104J+ | J | 0.1 | 50V | Mylar | AB |
| C7720 | RC-EZA155WJZZ | J | 2200 | 10V | Electrolytic | AE |
| C7721 | RC-EZA168WJZZ+ | S | 220 | 25V | Electrolytic | AB |
| C7722 | RC-EZA172WJZZ | J | 1000 | 25V | Electrolytic | AE |
| C7723 | RC-EZA184WJZZ+ | J | 100 | 50V | Electrolytic | AD |
| C7724 | VCEA4A1AN108M | J | 1000 | 10V | Electrolytic | AD |
| C7725 | RC-EZA173WJZZ | J | 1500 | 25V | Electrolytic | AF |
| C7727 | RC-EZA173WJZZ | J | 1500 | 25V | Electrolytic | AF |
| C7728 | RC-EZA153WJZZ+ | J | 470 | 10V | Electrolytic | AD |
| C7729 | RC-EZA172WJZZ | J | 1000 | 25V | Electrolytic | AE |
| C7731 | VCEA4A1CN226M+ | S | 22 | 16V | Electrolytic | AB |
| C7732 | VCEA4A1AN227M+ | J | 220 | 10V | Electrolytic | AC |
| C7733 | VCEA4A1CN226M+ | S | 22 | 16V | Electrolytic | AB |
| C7736 | VCEA0A1HW227M+ | J | 220 | 50V | Electrolytic | AB |
| C7737 | VCEA4A1CN107M+ | J | 100 | 16V | Electrolytic | AB |
| C7738 | VCEA4A1CN107M+ | J | 100 | 16V | Electrolytic | AB |
| C7739 | VCEA4A1HN225M+ | J | 2.2 | 50V | Electrolytic | AC |
| C7740 | VCQYTA1HM104J+ | J | 0.1 | 50V | Mylar | AB |
| C7741 | VCEA0A1EW227M+ | J | 220 | 25V | Electrolytic | AB |
| C7742 | VCEA0A1AW227M+ | J | 220 | 10V | Electrolytic | AB |
| C7743 | VCEA4A1CN106M+ | J | 10 | 16V | Electrolytic | AC |
| C7744 | VCEA4A1CN106M+ | J | 10 | 16V | Electrolytic | AC |
| C7747 | RC-EZA173WJZZ | J | 1500 | 25V | Electrolytic | AF |

### RESISTORS

| Ref. No. | Part No. | ★ | | | | Code |
|---|---|---|---|---|---|---|
| RJ1 | VRS-CY1JF000JY | J | 0 | 1/16W | Metal Oxide | AA |
| RJ2 | VRS-CY1JF000JY | J | 0 | 1/16W | Metal Oxide | AA |
| RJ3 | VRS-CY1JF000JY | J | 0 | 1/16W | Metal Oxide | AA |
| RJ5 | VRS-CY1JF000JY | J | 0 | 1/16W | Metal Oxide | AA |
| R3302 | VRN-VV3DB1R0J | J | 1 | 2W | Metal Film | AB |
| R3304 | VRS-CY1JF153JY | J | 15k | 1/16W | Metal Oxide | AA |
| R3311 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R3312 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R3315 | VRS-CY1JF681JY | J | 680 | 1/16W | Metal Oxide | AA |
| R3316 | VRS-CY1JF681JY | J | 680 | 1/16W | Metal Oxide | AA |
| R3317 | VRS-CY1JF124JY | J | 120k | 1/16W | Metal Oxide | AA |
| R3321 | VRD-RA2BE272JY | J | 2.7k | 1/8W | Carbon | AA |
| R3322 | VRS-CY1JF473JY | J | 47k | 1/16W | Metal Oxide | AA |
| R3323 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3324 | VRS-CY1JF124JY | J | 120k | 1/16W | Metal Oxide | AA |
| R3325 | VRD-RA2BE683JY | J | 68k | 1/8W | Carbon | AA |
| R3326 | VRD-RM2HD151JY | J | 150 | 1/2W | Carbon | AA |
| R3327 | VRD-RM2HD151JY | J | 150 | 1/2W | Carbon | AA |
| R3607 | VRS-CY1JF153JY | J | 15k | 1/16W | Metal Oxide | AA |
| R3608 | VRS-CY1JF153JY | J | 15k | 1/16W | Metal Oxide | AA |
| R3902 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R3904 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R3905 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R3906 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R3907 | VRS-CY1JF472JY | J | 4.7k | 1/16W | Metal Oxide | AA |
| R3908 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R3909 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R3910 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R3911 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R3912 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3913 | VRD-RA2BE271JY | J | 270 | 1/8W | Carbon | AA |
| R3914 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R3915 | VRS-CY1JF271JY | J | 270 | 1/16W | Metal Oxide | AA |
| R3916 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R3917 | VRS-CY1JF823JY | J | 82k | 1/16W | Metal Oxide | AA |
| R3918 | VRS-CY1JF271JY | J | 270 | 1/16W | Metal Oxide | AA |
| R3919 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R3920 | VRS-CY1JF271JY | J | 270 | 1/16W | Metal Oxide | AA |
| R3921 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R3922 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R3923 | VRS-CY1JF473JY | J | 47k | 1/16W | Metal Oxide | AA |
| R3924 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R3925 | VRS-CY1JF473JY | J | 47k | 1/16W | Metal Oxide | AA |
| R3926 | VRS-CY1JF000JY | J | 0 | 1/16W | Metal Oxide | AA |
| R3927 | VRS-CY1JF750JY | J | 75 | 1/16W | Metal Oxide | AA |
| R3928 | VRS-CY1JF000JY | J | 0 | 1/16W | Metal Oxide | AA |
| R3929 | VRS-CY1JF750JY | J | 75 | 1/16W | Metal Oxide | AA |
| R3930 | VRS-CY1JF000JY | J | 0 | 1/16W | Metal Oxide | AA |
| R3931 | VRS-CY1JF750JY | J | 75 | 1/16W | Metal Oxide | AA |
| R3933 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |

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## SUB UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| R3934 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R3935 | VRS-CY1JF750JY | J | 75 | 1/16W | Metal Oxide | AA |
| R3936 | VRS-CY1JF750JY | J | 75 | 1/16W | Metal Oxide | AA |
| R3937 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R3938 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3939 | VRD-RA2BE220JY | J | 22 | 1/8W | Carbon | AA |
| R3940 | VRD-RA2BE102JY | J | 1k | 1/8W | Carbon | AA |
| R3941 | VRD-RA2BE750JY | J | 75 | 1/8W | Carbon | AA |
| R3942 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R5000 | VRS-CY1JF750JY | J | 75 | 1/16W | Metal Oxide | AA |
| R5001 | VRS-CY1JF750JY | J | 75 | 1/16W | Metal Oxide | AA |
| R5005 | VRS-CY1JF750JY | J | 75 | 1/16W | Metal Oxide | AA |
| R5008 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R5009 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R5010 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R5012 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R5014 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R5015 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R5016 | VRS-CY1JF473JY | J | 47k | 1/16W | Metal Oxide | AA |
| R5017 | VRS-CY1JF473JY | J | 47k | 1/16W | Metal Oxide | AA |
| ⚠ R7702 | RR-HZ0014GEZZY | J | 12M | 1W | Coat-insulated fixed anti-surge | AE |
| R7703 | VRN-VV3AB1R0J | J | 1 | 1W | Metal Film | AA |
| R7704 | VRN-VV3ABR82J | J | 0.82 | 1W | Metal Film | AA |
| R7705 | RR-DZA030WJZZ | S | 330k | 2W | Spesial Carbon Film | AB |
| R7706 | VRD-RM2HD220JY | J | 22 | 1/2W | Carbon | AA |
| R7707 | RR-DZA033WJZZ | J | 180k | 3W | Spesial Carbon Film | AD |
| R7708 | RR-DZA033WJZZ | J | 180k | 3W | Spesial Carbon Film | AD |
| R7709 | VRW-KP3HC3R3K | J | 3.3 | 5W | Cement | AC |
| R7710 | VRD-RM2HD102JY | J | 1k | 1/2W | Carbon | AA |
| R7711 | VRS-CY1JF222JY | J | 2.2k | 1/16W | Metal Oxide | AA |
| R7712 | VRD-RM2HD220JY | J | 22 | 1/2W | Carbon | AA |
| R7713 | VRD-RA2BE562JY | J | 5.6k | 1/8W | Carbon | AA |
| R7714 | VRD-RA2BE102JY | J | 1k | 1/8W | Carbon | AA |
| R7715 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R7716 | VRN-VV3ABR22J | J | 0.22 | 1W | Metal Film | AA |
| R7717 | VRN-SV2HC1R0J | J | 1 | 1/2W | Metal Film | AA |
| R7718 | VRD-RM2HD221JY | J | 220 | 1/2W | Carbon | AA |
| R7719 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R7720 | VRS-CY1JF271JY | J | 270 | 1/16W | Metal Oxide | AA |
| R7721 | VRD-RA2BE102JY | J | 1k | 1/8W | Carbon | AA |
| R7722 | VRN-SV2HC1R0J | J | 1 | 1/2W | Metal Film | AA |
| R7726 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R7727 | VRN-RA2BK221FY | S | 220 | 1/8W | Metal Film | AA |
| R7729 | VRD-RA2BE222JY | J | 2.2k | 1/8W | Carbon | AA |
| R7730 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R7732 | VRD-RM2HD221JY | J | 220 | 1/2W | Carbon | AA |
| R7733 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R7735 | VRS-CY1JF473JY | J | 47k | 1/16W | Metal Oxide | AA |
| R7737 | VRD-RA2BE102JY | J | 1K | 1/8W | Carbon | AA |
| R7738 | VRS-CY1JF563JY | J | 56k | 1/16W | Metal Oxide | AA |
| R7739 | VRD-RM2HD222JY | J | 2.2k | 1/2W | Carbon | AA |
| R7740 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R7741 | VRS-CY1JF182JY | J | 1.8k | 1/16W | Metal Oxide | AA |
| R7742 | VRD-RA2BE223JY | J | 22k | 1/8W | Carbon | AA |
| R7743 | VRS-CY1JF563JY | J | 56k | 1/16W | Metal Oxide | AA |
| R7744 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R7745 | VRD-RA2EE102JY | J | 1k | 1/4W | Carbon | AA |
| R7746 | VRS-VV3AB560J | J | 56 | 1W | Metal Oxide | AA |
| R7747 | VRD-RA2BE101JY | J | 100 | 1/8W | Carbon | AA |
| R7748 | VRD-RA2BE102JY | J | 1k | 1/8W | Carbon | AA |
| R7749 | VRD-RA2BE102JY | J | 1k | 1/8W | Carbon | AA |

### MISCELLANEOUS PARTS

| | | | | | |
|---|---|---|---|---|---|
| ⚠ F7701 | QFS-C3229CEZZ | J | Fuse, 3.15A/250V | | AD |
| FH7701 | QFSHD1017CEZZ+ | J | Fuse Holder | | AC |
| FH7702 | QFSHD1018CEZZ+ | J | Fuse Holder | | AC |
| FB7702 | RBLN-0020CEZZ | J | Ferrite Bead | | AB |
| FB7704 | RBLN-0090GEZZY | J | Ferrite Bead | | AB |
| J3701 | QJAKJ0101SEZZ | J | Jack, Headphone | | AE |
| J3901 | QJAKFA031WJZZ | J | Jack, Audio Out (L/R) | | AE |
| J5000 | QSOCD0439CEZZ | J | Socket S-Video | | AF |
| J5001 | QJAKGA067WJZZ | J | Jack, Audio (L/R)/Video | | AE |
| P3301 | QPLGN0442CEZZ | J | Plug, 4-pin (TS) | | AB |
| P3601 | QPLGZ1338CEZZ | J | Plug, 13-pin (MF) | | AE |
| P3901 | QCNCMA012WJZZ | J | Plug, 15-pin (MB) | | AD |
| P3902 | QCNCMA250WJZZ | S | Plug, 23-pin | | AD |
| P7701 | QCNCMA012WJZZ | J | Plug, 15-pin | | AD |
| SC3601 | QSOCN0895REZZ | J | Socket, 8-pin | | AC |
| SC3901 | QSOCZA056WJZZ | S | Socket, AV-IN1 (21-pin Euro-SCART) | | AG |
| ⚠ CN7701 | QSOCAA003WJZZ | J | Socket, 2-pin (AC INPUT Terminal) | | AD |
| RDA3301 | PRDARA176WJFW | S | Heat Sink, for IC3301 | | AD |
| RDA7701 | PRDARA158WJFW | S | Heat Sink, for IC7701 | | AC |
| RDA7702 | PRDARA159WJFW | S | Heat Sink, for D7703/D7713 | | AC |
| | LX-BZ3100CEF7 | S | Screw, x3 | | AA |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

## DUNTC858WE04
## OPERATION UNIT

### DIODES

| | | | | |
|---|---|---|---|---|
| D4201 | RH-EX0646GEZZY | J | Zener Diode | AA |
| D4202 | RH-EX0604GEZZY | J | Zener Diode | AB |
| D4203 | RH-EX0604GEZZY | J | Zener Diode | AB |

### RESISTORS

| | | | | | |
|---|---|---|---|---|---|
| R4201 | VRS-CY1JF122JY | J | 1.2k | 1/16W Metal Oxide | AA |
| R4202 | VRS-CY1JF471JY | J | 470 | 1/16W Metal Oxide | AA |
| R4203 | VRS-CY1JF122JY | J | 1.2k | 1/16W Metal Oxide | AA |
| R4204 | VRS-CY1JF471JY | J | 470 | 1/16W Metal Oxide | AA |
| R4205 | VRS-CY1JF332JY | J | 3.3k | 1/16W Metal Oxide | AA |

### SWITCHES

| | | | | |
|---|---|---|---|---|
| S4201 | QSW-P0614CEZZ | J | MAIN POWER | AF |
| SW4202 | QSW-K0003AJZZ+ | J | CH(∨) | AB |
| SW4203 | QSW-K0003AJZZ+ | J | CH(∧) | AB |
| SW4204 | QSW-K0003AJZZ+ | J | INPUT | AB |
| SW4205 | QSW-K0003AJZZ+ | J | MENU | AB |
| SW4206 | QSW-K0003AJZZ+ | J | VOL(+) | AB |
| SW4207 | QSW-K0003AJZZ+ | J | VOL(–) | AB |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| SC4201 | QSOCN0596REZZ | J | Socket, 5-pin | AB |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

## DUNTKC859WE04
## R/C, LED UNIT

### TRANSISTORS

| | | | | |
|---|---|---|---|---|
| Q4001 | VSKRC104S//-1Y | J | KRC104S | AA |
| Q4002 | VSKRC104S//-1Y | J | KRC104S | AA |
| Q4004 | VSKRC104S//-1Y | J | KRC104S | AA |
| Q4005 | VSKRC104S//-1Y | J | KRC104S | AA |

### DIODES

| | | | | |
|---|---|---|---|---|
| D4001 | RH-PXA014WJZZ+ | J | STANDBY/ON Indicator | AD |
| D4002 | RH-PXA014WJZZ+ | J | OPC Indicator | AD |
| D4004 | RH-EX0640GEZZY | J | Zener Diode | AA |
| D4005 | RH-EX0640GEZZY | J | Zener Diode | AA |
| D4007 | RH-EX0640GEZZY | J | Zener Diode | AA |
| D4008 | RH-PXA088WJZZ | J | OPC Sensor | AG |

### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C4001 | VCEAEA1CW106M+ | J | 10 | 16V | Electrolytic | AB |
| C4002 | VCEAEA1CW106M+ | J | 10 | 16V | Electrolytic | AB |
| C4003 | VCEAEA0JW107M+ | J | 100 | 6.3V | Electrolytic | AB |
| C4004 | VCKYCY1HF103ZY | J | 0.01 | 50V | Ceramic | AA |

### RESISTORS

| | | | | | |
|---|---|---|---|---|---|
| R4001 | VRS-CY1JF331JY | J | 330 | 1/16W Metal Oxide | AA |
| R4002 | VRS-CY1JF681JY | J | 680 | 1/16W Metal Oxide | AA |
| R4003 | VRS-CY1JF472JY | J | 4.7k | 1/16W Metal Oxide | AA |
| R4006 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R4007 | VRS-CY1JF331JY | J | 330 | 1/16W Metal Oxide | AA |
| R4010 | VRS-CY1JF333JY | J | 33k | 1/16W Metal Oxide | AA |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| SC4001 | QSOCN0896REZZ | J | Socket, 8-pin | AC |
| RMC4001 | RRMCUA034WJQZ | J | R/C Receiver | AE |
| | LHLDZA486WJZZ | S | LED Holder | AD |

# DUNTKC860FM03
## MAIN UNIT

### TUNER

***NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.***

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| TU201 | VTUVT1Y5ED501 | S | Tuner | AS |

### INTEGRATED CIRCUITS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| IC101 | VHiM24C64WN-1Y | J | M24C64-WMN6T | AL |
| IC151 | VHi39VF01WH-1Q | J | I.C. | AN |
| IC501 | RH-iXB219WJZZQ | J | I.C. | BK |
| IC701 | VHiLM1117MJ-1Y | J | LM1117MPX-ADJ | AF |
| IC702 | VHiMM1563DF-1Y | J | MM1563DFBE | AE |
| IC703 | VHiLM1117MJ-1Y | J | LM1117MPX-ADJ | AF |
| IC704 | VHiBA05FP++-1Y | J | BA05FP-E2 | AF |
| IC751 | VHiNJ79M08D-1Y | J | NJM79M08DL1A | AF |
| IC801 | RH-iX3251CEZZY | J | TDA9178T/N1 | AY |
| IC1101 | VHiBD8120FP-1Y | J | BD8120FP | AX |
| IC1201 | RH-iXA370WJZZQ | J | LR38819 | AY |
| IC2201 | VHiTLVDF84B-1Y | J | THC63LVDF84B | AT |

### TRANSISTORS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| Q101 | VSFMMT718//-1Y | J | FMMT718 | AE |
| Q102 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q103 | VSFMMT718//-1Y | J | FMMT718 | AE |
| Q104 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q105 | VSUM5K1NTR+-1Y | J | UM5K1NTR | AC |
| Q201 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q202 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q205 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q701 | VSDTA144EE/-1Y | J | DTA144EE | AA |
| Q702 | VSDTA124EE/-1Y | J | DTA124EE | AB |
| Q751 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q752 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q753 | VSDTC144EE/-1Y | J | DTC144EE | AA |
| Q754 | VSFMMT718//-1Y | J | FMMT718 | AE |
| Q755 | VSDTC144EE/-1Y | J | DTC144EE | AA |
| Q756 | VSDTC144EE/-1Y | J | DTC144EE | AA |
| Q757 | VSDTC144EE/-1Y | J | DTC144EE | AA |
| Q758 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q759 | VSDTA144EE/-1Y | J | DTA144EE | AA |
| Q801 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q802 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q803 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q1105 | VS2SC4520//-1Y | J | 2SC4520 | AE |
| Q1106 | VS2SA1729//-1Y | J | 2SA1729 | AF |

### DIODES

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| D101 | VHDHSU119//-1Y | J | Diode | AB |
| D202 | RH-EXA101WJZZY | J | Zener Diode | AB |
| D203 | VHDRB481K++-1Y | J | Diode | AD |
| D204 | VHD1SS390++-1Y | J | Diode | AB |
| D205 | VHDHSU119//-1Y | J | Diode | AB |
| D206 | VHDHSU119//-1Y | J | Diode | AB |
| D208 | VHD1SS390++-1Y | J | Diode | AB |
| D701 | VHDHSU119//-1Y | J | Diode | AB |
| D702 | VHDHSU119//-1Y | J | Diode | AB |
| D703 | VHDHSU119//-1Y | J | Diode | AB |
| D704 | VHD1SS119//-1Y | J | Diode | AA |
| D751 | RH-EXA099WJZZY | J | Zener Diode | AB |
| D755 | VHDRB481K++-1Y | J | Diode | AD |
| D756 | VHDHSU119//-1Y | J | Diode | AB |
| D757 | VHDHSU119//-1Y | J | Diode | AB |
| D759 | VHD1SS250//1EY | J | Diode | AB |
| D1103 | VHD1SS250//1EY | J | Diode | AB |
| D1104 | VHD1SS250//1EY | J | Diode | AB |

### PACKAGED CIRCUITS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| X101 | RCRSAA058WJZZ | J | Crystal | AD |
| X501 | RCRSAA037WJZZ | J | Crystal | AE |

### FILTERS AND COILS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| SF201 | RFiLCA102WJZZ | S | S.A.W Filter | AH |
| SF202 | RFiLCA103WJZZ | S | S.A.W Filter | AM |
| L202 | RCiLPA143WJZZY | J | Coil | AD |
| L751 | RCiLPA143WJZZY | J | Coil | AD |
| L752 | VPCNN470J5R4NY | J | Peaking 47µH | AB |
| L2201 | VPCNN2R7JR85NY | J | Peaking 2.7µH | AB |
| L2202 | VPCNN2R7JR85NY | J | Peaking 2.7µH | AB |

### CAPACITORS

| Ref. No. | Part No. | ★ | | | | Code |
|---|---|---|---|---|---|---|
| C101 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C102 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C104 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C106 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C107 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C109 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C110 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C111 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C113 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C116 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C117 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C118 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C119 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C121 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C122 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C123 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C124 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C126 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C127 | VCKYCY1CB223KY | J | 0.022 | 16V | Ceramic | AB |
| C128 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C151 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C152 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C161 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C162 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C163 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C201 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C203 | VCKYCY1HF333ZY | S | 0.033 | 50V | Ceramic | AA |
| C204 | VCEAPF1CW476MY | J | 47 | 16V | Electrolytic | AC |
| C205 | VCEAPF1CW476MY | J | 47 | 16V | Electrolytic | AC |
| C206 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C207 | VCEAPF1HW225MY | J | 2.2 | 50V | Electrolytic | AB |
| C208 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C213 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C215 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C216 | VCEAPF1HW225MY | J | 2.2 | 50V | Electrolytic | AB |
| C217 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C218 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C220 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C301 | VCEAPF1HW475MY | J | 4.7 | 50V | Electrolytic | AC |
| C302 | VCKYCY1HB392KY | J | 3900p | 50V | Ceramic | AA |
| C303 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C304 | VCEAPF1HW225MY | J | 2.2 | 50V | Electrolytic | AB |
| C305 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C306 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C331 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C332 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C358 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C359 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C360 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C361 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C362 | VCKYTV1EB474KY | J | 0.47 | 25V | Ceramic | AC |
| C363 | VCKYTV1EB474KY | J | 0.47 | 25V | Ceramic | AC |
| C366 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C367 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C368 | VCKYTV1EB474KY | J | 0.47 | 25V | Ceramic | AC |
| C369 | VCKYTV1EB474KY | J | 0.47 | 25V | Ceramic | AC |
| C409 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C410 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C411 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C412 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C413 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C414 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C415 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C416 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C417 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C418 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C419 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |

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## MAIN UNIT (Continued)

| Ref. No. | Part No. | ★ | | | Description | Code |
|---|---|---|---|---|---|---|
| C420 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C421 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C501 | VCEAPF0JW226MY | J | 22 | 6.3V | Electrolytic | AB |
| C504 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C505 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C506 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C507 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C510 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C511 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C512 | VCEAPF0JW226MY | J | 22 | 6.3V | Electrolytic | AB |
| C513 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C514 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C515 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C517 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C518 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C519 | VCCCCY1HH8R0DY | J | 8.0p | 50V | Ceramic | AA |
| C520 | VCCCCY1HH8R0DY | J | 8.0p | 50V | Ceramic | AA |
| C521 | VCEAPF0JW226MY | J | 22 | 6.3V | Electrolytic | AB |
| C522 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C523 | VCEAPF0JW226MY | J | 22 | 6.3V | Electrolytic | AB |
| C524 | VCEAPF0JW226MY | J | 22 | 6.3V | Electrolytic | AB |
| C525 | VCEAPF0JW226MY | J | 22 | 6.3V | Electrolytic | AB |
| C535 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C536 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C547 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C548 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C549 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C550 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C551 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C552 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C554 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C556 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C557 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C558 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C570 | VCKYCY1CB333KY | J | 0.033 | 16V | Ceramic | AA |
| C571 | VCCCCY1HH100DY | J | 10p | 50V | Ceramic | AA |
| C574 | VCKYCY1CB333KY | J | 0.033 | 16V | Ceramic | AA |
| C575 | VCKYCY1CB333KY | J | 0.033 | 16V | Ceramic | AA |
| C576 | VCCCCY1HH100DY | J | 10p | 50V | Ceramic | AA |
| C578 | VCKYCY1CB333KY | J | 0.033 | 16V | Ceramic | AA |
| C579 | VCKYCY1CB223KY | J | 0.022 | 16V | Ceramic | AB |
| C580 | VCKYCY1CB333KY | J | 0.033 | 16V | Ceramic | AA |
| C581 | VCCCCY1HH100DY | J | 10p | 50V | Ceramic | AA |
| C582 | VCKYCY1CB333KY | J | 0.033 | 16V | Ceramic | AA |
| C701 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C702 | VCEAPF1CW476MY | J | 47 | 16V | Electrolytic | AC |
| C703 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C704 | VCEAPF1CW476MY | J | 47 | 16V | Electrolytic | AC |
| C709 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C710 | VCEAPF1CW476MY | J | 47 | 16V | Electrolytic | AC |
| C711 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C712 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C720 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C721 | VCKYCY1HB471KY | J | 470p | 50V | Ceramic | AA |
| C722 | VCEAPF1CW476MY | J | 47 | 16V | Electrolytic | AC |
| C723 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C724 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C725 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C751 | VCEASN1HN225MY | J | 2.2 | 50V | Electrolytic | AB |
| C752 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C753 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C754 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C758 | RC-KZ0075TAZZY | J | 2.2 | 16V | Ceramic | AC |
| C759 | VCEASN1HN225MY | J | 2.2 | 50V | Electrolytic | AB |
| C760 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C761 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C763 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C764 | VCEASN1HN475MY | J | 4.7 | 50V | Electrolytic | AC |
| C765 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C766 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C801 | VCEAPF1HW105MY | J | 1 | 50V | Electrolytic | AB |
| C802 | VCKYCY1HB682KY | J | 6800p | 50V | Ceramic | AA |
| C803 | VCKYCY1CF224ZY | J | 0.22 | 16V | Ceramic | AB |
| C804 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C805 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C806 | VCKYCY1CF334ZY | J | 0.33 | 16V | Ceramic | AB |
| C807 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C808 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C809 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C810 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C811 | VCCCCY1HH220JY | J | 22p | 50V | Ceramic | AA |
| C812 | VCCCCY1HH220JY | J | 22p | 50V | Ceramic | AA |
| C813 | VCCCCY1HH220JY | J | 22p | 50V | Ceramic | AA |
| C814 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C815 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C816 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C817 | RC-KZ0074TAZZY | J | 10 | 6.3V | Ceramic | AF |
| C818 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C819 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C820 | VCEAPF1CW476MY | J | 47 | 16V | Electrolytic | AC |
| C821 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C822 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C823 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C825 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C826 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C827 | RC-KZ0074TAZZY | J | 10 | 6.3V | Ceramic | AF |
| C828 | RC-KZ0074TAZZY | J | 10 | 6.3V | Ceramic | AF |
| C829 | RC-KZ0074TAZZY | J | 10 | 6.3V | Ceramic | AF |
| C830 | VCCCCY1HH470JY | J | 47p | 50V | Ceramic | AA |
| C831 | VCCCCY1HH470JY | J | 47p | 50V | Ceramic | AA |
| C832 | VCCCCY1HH470JY | J | 47p | 50V | Ceramic | AA |
| C833 | VCKYCY1HB271KY | J | 270p | 50V | Ceramic | AA |
| C834 | VCKYCY1HB271KY | J | 270p | 50V | Ceramic | AA |
| C835 | VCKYCY1HB271KY | J | 270p | 50V | Ceramic | AA |
| C1104 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C1106 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C1107 | RC-KZA041WJZZY | J | 10 | 10V | Ceramic | AC |
| C1108 | VCCCCY1HH560JY | J | 56p | 50V | Ceramic | AB |
| C1109 | RC-KZA041WJZZY | J | 10 | 10V | Ceramic | AC |
| C1110 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C1116 | VCKYTV1CB105KY | J | 1 | 16V | Ceramic | AC |
| C1117 | VCKYTV1CB105KY | J | 1 | 16V | Ceramic | AC |
| C1118 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C1119 | RC-KZA041WJZZY | J | 10 | 10V | Ceramic | AC |
| C1120 | VCEASN1HN106MY | J | 10 | 50V | Electrolytic | AC |
| C1202 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C1203 | RC-KZ0117TAZZY | J | 4.7 | 6.3V | Ceramic | AD |
| C1210 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C1213 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C1214 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C1215 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C1216 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2201 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C2202 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C2203 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C2204 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C2205 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2206 | VCCCCY1HH470JY | J | 47p | 50V | Ceramic | AA |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R101 | VRS-CY1JF332JY | J | 3.3k | 1/16W | Metal Oxide | AA |
| R102 | VRS-CY1JF332JY | J | 3.3k | 1/16W | Metal Oxide | AA |
| R103 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R104 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R105 | VRS-CY1JF153JY | J | 15k | 1/16W | Metal Oxide | AA |
| R106 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R107 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R108 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R109 | VRS-CY1JF222JY | J | 2.2k | 1/16W | Metal Oxide | AA |
| R111 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R113 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R114 | VRS-CY1JF2R2JY | J | 2.2 | 1/16W | Metal Oxide | AA |
| R115 | VRS-CY1JF2R2JY | J | 2.2 | 1/16W | Metal Oxide | AA |
| R116 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R117 | VRS-CY1JF2R2JY | J | 2.2 | 1/16W | Metal Oxide | AA |
| R118 | VRS-CY1JF2R2JY | J | 2.2 | 1/16W | Metal Oxide | AA |

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## MAIN UNIT (Continued)

| Ref. No. | Part No. | ★ | | Description | Code |
|---|---|---|---|---|---|
| R119 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R120 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R122 | VRS-CY1JF153JY | J | 15k | 1/16W Metal Oxide | AA |
| R123 | VRS-CY1JF102JY | J | 1k | 1/16W Metal Oxide | AA |
| R124 | VRS-CY1JF154JY | J | 150k | 1/16W Metal Oxide | AA |
| R125 | VRS-CY1JF332JY | J | 3.3k | 1/16W Metal Oxide | AA |
| R126 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R127 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R129 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R131 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R132 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R133 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R134 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R136 | VRS-CY1JF472JY | J | 4.7k | 1/16W Metal Oxide | AA |
| R137 | VRS-CY1JF472JY | J | 4.7k | 1/16W Metal Oxide | AA |
| R138 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R139 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R140 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R141 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R142 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R143 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R144 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R145 | VRS-CY1JF332JY | J | 3.3k | 1/16W Metal Oxide | AA |
| R146 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R147 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R148 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R149 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R151 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R152 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R161 | VRS-CY1JF332JY | J | 3.3k | 1/16W Metal Oxide | AA |
| R164 | VRS-CY1JF332JY | J | 3.3k | 1/16W Metal Oxide | AA |
| R201 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R202 | VRS-CY1JF122JY | J | 1.2k | 1/16W Metal Oxide | AA |
| R203 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R204 | VRS-CY1JF122JY | J | 1.2k | 1/16W Metal Oxide | AA |
| R205 | VRS-CY1JF122JY | J | 1.2k | 1/16W Metal Oxide | AA |
| R206 | VRS-CY1JF473JY | J | 47k | 1/16W Metal Oxide | AA |
| R207 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R208 | VRS-CY1JF392JY | J | 3.9k | 1/16W Metal Oxide | AA |
| R209 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R210 | VRS-CY1JF153JY | J | 15k | 1/16W Metal Oxide | AA |
| R211 | VRS-CY1JF332JY | J | 3.3k | 1/16W Metal Oxide | AA |
| R212 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R217 | VRS-CY1JF102JY | J | 1k | 1/16W Metal Oxide | AA |
| R218 | VRS-CY1JF681JY | J | 680 | 1/16W Metal Oxide | AA |
| R219 | VRS-CJ1JF102JY | J | 1k | 1/16W Metal Oxide | AA |
| R220 | VRS-CY1JF122JY | J | 1.2k | 1/16W Metal Oxide | AA |
| R221 | VRS-CY1JF122JY | J | 1.2k | 1/16W Metal Oxide | AA |
| R224 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R237 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R239 | VRS-CY1JF222JY | J | 2.2k | 1/16W Metal Oxide | AA |
| R301 | VRS-CY1JF391JY | J | 390 | 1/16W Metal Oxide | AA |
| R302 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R303 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R304 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R305 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R306 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R362 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R363 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R364 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R365 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R366 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R367 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R368 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R369 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R370 | VRD-RA2BE103JY | J | 10k | 1/8W Carbon | AA |
| R371 | VRD-RA2BE103JY | J | 10k | 1/8W Carbon | AA |
| R423 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R544 | VRS-CY1JF823JY | J | 82k | 1/16W Metal Oxide | AA |
| R548 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R549 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R550 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R551 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R552 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R553 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R554 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R557 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R558 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R559 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R570 | VRS-CY1JF100JY | J | 10 | 1/16W Metal Oxide | AA |
| R571 | VRS-CY1JF470JY | J | 47 | 1/16W Metal Oxide | AA |
| R573 | VRS-CY1JF100JY | J | 10 | 1/16W Metal Oxide | AA |
| R574 | VRS-CY1JF470JY | J | 47 | 1/16W Metal Oxide | AA |
| R575 | VRS-CY1JF100JY | J | 10 | 1/16W Metal Oxide | AA |
| R576 | VRS-CY1JF470JY | J | 47 | 1/16W Metal Oxide | AA |
| R577 | VRS-CY1JF123JY | J | 12k | 1/16W Metal Oxide | AA |
| R701 | VRS-CY1JF121JY | J | 120 | 1/16W Metal Oxide | AA |
| R702 | VRS-CY1JF271JY | J | 270 | 1/16W Metal Oxide | AA |
| R704 | VRS-CY1JF472JY | J | 4.7k | 1/16W Metal Oxide | AA |
| R705 | VRS-CY1JF000JY | J | 0 | 1/16W Metal Oxide | AA |
| R709 | VRS-TW2HF000JY | J | 0 | 1/2W Metal Oxide | AA |
| R710 | VRS-CY1JF271JY | J | 270 | 1/16W Metal Oxide | AA |
| R711 | VRS-CY1JF471JY | J | 470 | 1/16W Metal Oxide | AA |
| R714 | VRS-TW2HF1R0JY | J | 1 | 1/2W Metal Oxide | AA |
| R715 | VRS-TW2HF1R0JY | J | 1 | 1/2W Metal Oxide | AA |
| R716 | VRS-TW2HF101JY | J | 100 | 1/2W Metal Oxide | AA |
| R717 | VRS-TW2HF101JY | J | 100 | 1/2W Metal Oxide | AA |
| R718 | VRS-VV3AB270J | J | 27 | 1W Metal Oxide | AA |
| R721 | VRS-CY1JF105JY | J | 1M | 1/16W Metal Oxide | AA |
| R722 | VRS-TW2HF1R0JY | J | 1 | 1/2W Metal Oxide | AA |
| R751 | VRS-CY1JF472JY | J | 4.7k | 1/16W Metal Oxide | AA |
| R752 | VRS-CY1JF272JY | J | 2.7k | 1/16W Metal Oxide | AA |
| R753 | VRS-TW2ED102JY | J | 1k | 1/4W Metal Oxide | AA |
| R754 | VRS-CY1JF472JY | J | 4.7k | 1/16W Metal Oxide | AA |
| R755 | VRS-CY1JF472JY | J | 4.7k | 1/16W Metal Oxide | AA |
| R757 | VRS-TW2ED103JY | J | 10k | 1/4W Metal Oxide | AA |
| R761 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R762 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R764 | VRS-CY1JF223JY | J | 22k | 1/16W Metal Oxide | AA |
| R766 | VRS-TW2HF330JY | J | 33 | 1/2W Metal Oxide | AA |
| R767 | VRS-TW2HF472JY | J | 4.7k | 1/2W Metal Oxide | AA |
| R769 | VRS-CY1JF562JY | J | 5.6k | 1/16W Metal Oxide | AA |
| R801 | VRS-CY1JF102JY | J | 1k | 1/16W Metal Oxide | AA |
| R802 | VRS-CY1JF123JY | J | 12k | 1/16W Metal Oxide | AA |
| R803 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R804 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R805 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R806 | VRS-CY1JF105JY | J | 1M | 1/16W Metal Oxide | AA |
| R807 | VRS-CY1JF393JY | J | 39k | 1/16W Metal Oxide | AA |
| R808 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R809 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R810 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R811 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R812 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R813 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R814 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R815 | VRS-CY1JF100JY | J | 10 | 1/16W Metal Oxide | AA |
| R816 | VRS-CY1JF273JY | J | 27k | 1/16W Metal Oxide | AA |
| R817 | VRS-CY1JF473JY | J | 47k | 1/16W Metal Oxide | AA |
| R819 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R820 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R821 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R822 | VRS-CY1JF472JY | J | 4.7k | 1/16W Metal Oxide | AA |
| R823 | VRS-CY1JF472JY | J | 4.7k | 1/16W Metal Oxide | AA |
| R824 | VRS-CY1JF472JY | J | 4.7k | 1/16W Metal Oxide | AA |
| R825 | VRS-CY1JF103JY | J | 10k | 1/16W Metal Oxide | AA |
| R826 | VRS-CY1JF104JY | J | 100k | 1/16W Metal Oxide | AA |
| R827 | VRS-CY1JF473JY | J | 47k | 1/16W Metal Oxide | AA |
| R828 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R829 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R830 | VRS-CY1JF101JY | J | 100 | 1/16W Metal Oxide | AA |
| R831 | VRS-CY1JF121JY | J | 120 | 1/16W Metal Oxide | AA |
| R832 | VRS-CY1JF121JY | J | 120 | 1/16W Metal Oxide | AA |
| R833 | VRS-CY1JF121JY | J | 120 | 1/16W Metal Oxide | AA |
| R834 | VRS-CY1JF750JY | J | 75 | 1/16W Metal Oxide | AA |
| R835 | VRS-CY1JF750JY | J | 75 | 1/16W Metal Oxide | AA |

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## MAIN UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| R836 | VRS-CY1JF750JY | J | 75 1/16W Metal Oxide | AA |
| R1101 | VRS-CY1JF273JY | J | 27k 1/16W Metal Oxide | AA |
| R1102 | VRS-CY1JF472JY | J | 4.7k 1/16W Metal Oxide | AA |
| R1103 | VRS-CY1JF472JY | J | 4.7k 1/16W Metal Oxide | AA |
| R1104 | VRS-CY1JF103JY | J | 10k 1/16W Metal Oxide | AA |
| R1112 | VRS-CY1JF181JY | J | 180 1/16W Metal Oxide | AA |
| R1113 | VRS-CY1JF102JY | J | 1k 1/16W Metal Oxide | AA |
| R1114 | VRS-CY1JF181JY | J | 180 1/16W Metal Oxide | AA |
| R1117 | VRS-TW2HF5R6JY | J | 5.6 1/2W Metal Oxide | AA |
| R1118 | VRS-TW2HF5R6JY | J | 5.6 1/2W Metal Oxide | AA |
| R1121 | VRS-CY1JF000JY | J | 0 1/16W Metal Oxide | AA |
| R1122 | VRS-CY1JF000JY | J | 0 1/16W Metal Oxide | AA |
| R1123 | VRS-TW2HF000JY | J | 0 1/2W Metal Oxide | AA |
| R1124 | VRS-TW2HF101JY | J | 100 1/2W Metal Oxide | AA |
| R1126 | VRS-CY1JF000JY | J | 0 1/16W Metal Oxide | AA |
| R1128 | VRS-CY1JF000JY | J | 0 1/16W Metal Oxide | AA |
| R1129 | VRS-CY1JF103JY | J | 10k 1/16W Metal Oxide | AA |
| R1130 | VRS-CY1JF000JY | J | 0 1/16W Metal Oxide | AA |
| R1203 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R1204 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R1205 | VRK-CD1JJ220JY | J | 22 1/16W Metal Compo. | AC |
| R1206 | VRK-CD1JJ220JY | J | 22 1/16W Metal Compo. | AC |
| R1207 | VRK-CD1JJ220JY | J | 22 1/16W Metal Compo. | AC |
| R1208 | VRS-CY1JF220JY | J | 22 1/16W Metal Oxide | AA |
| R1209 | VRS-CY1JF220JY | J | 22 1/16W Metal Oxide | AA |
| R1210 | VRS-CA1JF220JY | J | 22 1/16W Metal Oxide | AA |
| R1211 | VRS-CA1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R1214 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R1215 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R1216 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R1217 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R1218 | VRS-CY1JF220JY | J | 22 1/16W Metal Oxide | AA |
| R1223 | VRS-CY1JF000JY | J | 0 1/16W Metal Oxide | AA |
| R1230 | VRS-CY1JF472JY | J | 4.7k 1/16W Metal Oxide | AA |
| R1240 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R1241 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R1242 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R1243 | VRS-CY1JF000JY | J | 0 1/16W Metal Oxide | AA |
| R2203 | VRS-CB1JF470JY | J | 47 1/16W Metal Oxide | AA |
| R2204 | VRS-CB1JF470JY | J | 47 1/16W Metal Oxide | AA |
| R2205 | VRS-CB1JF470JY | J | 47 1/16W Metal Oxide | AA |
| R2206 | VRS-CB1JF470JY | J | 47 1/16W Metal Oxide | AA |
| R2207 | VRS-CB1JF470JY | J | 47 1/16W Metal Oxide | AA |
| R2208 | VRS-CB1JF470JY | J | 47 1/16W Metal Oxide | AA |
| R2224 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R2225 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R2226 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R2227 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R2228 | VRS-CY1JF101JY | J | 100 1/16W Metal Oxide | AA |
| R2232 | VRS-CY1JF100JY | J | 10 1/16W Metal Oxide | AA |
| R2233 | VRS-CY1JF103JY | J | 10k 1/16W Metal Oxide | AA |

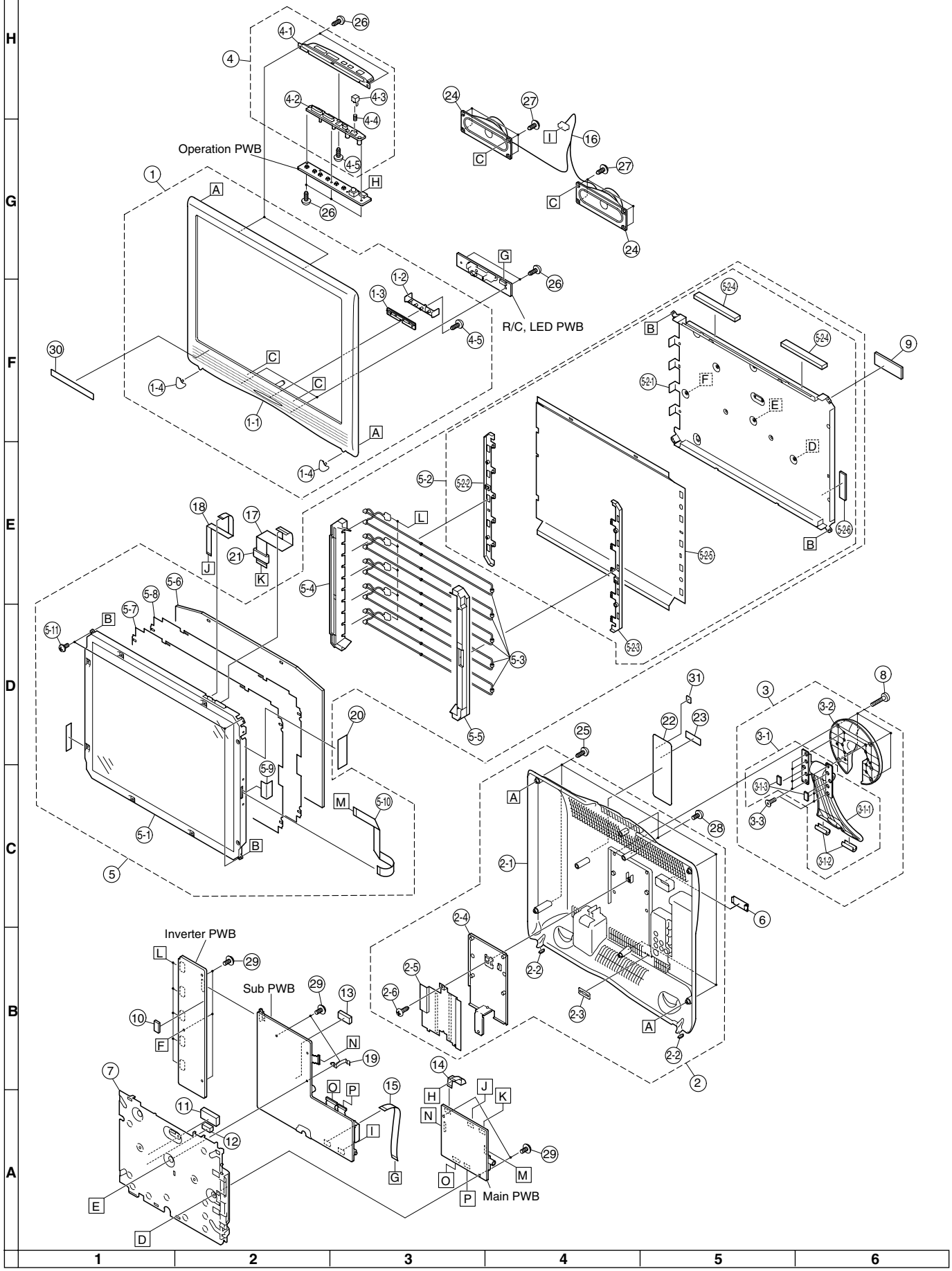
### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| FB101 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB102 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB103 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB104 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB105 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB106 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB107 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB108 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB109 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB151 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB201 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB204 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB401 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB501 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB502 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB504 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB507 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB508 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB531 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB532 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB533 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB535 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB801 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB802 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB803 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB804 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB805 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB806 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB807 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB808 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB809 | RBLN-0062TAZZY | J | Ferrite Bead | AB |
| FB1201 | RBLN-0083GEZZY | J | Ferrite Bead | AB |
| P2002 | QPLGNA144WJZZY | J | Plug, 20-pin | AF |
| SC102 | QCNCWA010WJZZY | J | Connector, 15-pin | AE |
| SC104 | QCNCWA010WJZZY | J | Connector, 15-pin | AE |
| SC105 | QSOCN0596REZZ | J | Socket , 5-pin | AB |
| SC106 | QCNCWA251WJZZYS | | Connector, 23-pin | AF |
| SC1201 | QSOCNA002WJPZY | J | Socket, 20-pin | AD |
| SC1202 | QSOCN0687FJZZY | J | Socket, 50-pin | AF |
| SC1203 | QSOCN0206FJZZY | J | Socket, 30-pin | AF |
| TP101 | QLUGHA006WJZZY | J | Lug | AC |
| TP102 | QLUGHA006WJZZY | J | Lug | AC |

# CABINET AND MECHANICAL PARTS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| 1 | CCABAA703WJ01 | S | Cabinet A Ass'y | BB |
| 1-1 | *Not Available* | – | Cabinet A | — |
| 1-2 | HDECQA452WJSA | S | R/C, LED Cover | |
| 1-3 | HDECQA459WJSA | S | LED Cover | |
| 1-4 | HDECQA478WJSA | S | Leg Cover, x2 | |
| 1-5 | XEBSN30P08000 | J | Screw, x1 | AA |
| 2 | CCABBA456WJ01 | S | Cabinet B Ass'y | BC |
| 2-1 | *Not Available* | – | Cabinet B | — |
| 2-2 | GLEGGA042WJZZ | S | Rubber Leg, x2 | |
| 2-3 | LANGFA085WJFW | J | Kensington Angle | AC |
| 2-4 | LANGTA155WJFW | S | Reinforcement Angle | |
| 2-5 | PZETKA109WJZZ | S | Insulating Spacer, x1 | |
| 2-6 | XEBSN30P08000 | J | Screw, x1 | AA |
| 3 | CDAi-A140WJ01 | S | Stand Ass'y | BB |
| 3-1 | CDAi-A140WJ02 | S | Stand Base Ass'y | |
| 3-1-1 | GDAi-A140WJSA | S | Stand Base | |
| 3-1-2 | GLEGGA041WJSA | S | Rubber Leg, x2 | |
| 3-1-3 | PSPAZA083WJZZ | J | Spacer, x2 | AB |
| 3-2 | GCOVAB023WJSA | S | Stand Cover | |
| 3-3 | XESSN40P10000 | J | Screw, x8 | AB |
| 4 | CCOVAA976WJ01 | S | Top Cover Ass'y | AP |
| 4-1 | *Not Available* | – | Top Cover | — |
| 4-2 | JBTN-A353WJSA | S | Operation Button | |
| 4-3 | JBTN-A354WJSA | S | Power Button | |
| 4-4 | MSPRCA014WJFW | J | Spring, for Power Button | AB |
| 4-5 | XEBSN30P08000 | J | Screw, x1 | AA |
| 5 | *Not Available* | – | 20" LCD Panel Unit Ass'y | — |
| 5-1 | RLCDTA025WJZZ | J | 20" LCD Panel Unit | DB |
| 5-2 | *Not Available* | – | Back Shield Ass'y | — |
| 5-2-1 | PSLDMA495WJFW | J | Back Shield | AW |
| 5-2-2 | LHLDZA412WJKZ | J | Lamp Holder-L(Bottom) | AG |
| 5-2-3 | LHLDZA413WJKZ | J | Lamp Holder-R(Bottom) | AF |
| 5-2-4 | PMLT-A150WJZZ | J | Light Shielding Spacer, x2 | AD |
| 5-2-5 | PSHEPA226WJZZ | J | Reflection Sheet | AN |
| 5-2-6 | TCAUZA031WJZZ | J | Caution Label | AB |
| ⚠ 5-3 | KLMP-A046WJZZ | J | Lamp Unit, x5 | AV |
| 5-4 | LHLDZA414WJKZ | J | Lamp Holder-L(Top) | AL |
| 5-5 | LHLDZA415WJKZ | J | Lamp Holder-R(Top) | AL |
| 5-6 | PCOVUA048WJZZ | J | Diffusion Plate | AY |
| 5-7 | PSHEPA231WJZZ | J | Reflection/deflection Sheet | BB |
| 5-8 | PSHEPA233WJZZ | J | Diffusion Sheet | AM |
| 5-9 | PSPAZA447WJZZ | J | Spacer, x1 | AC |
| 5-10 | QCNW-C947WJQZ | J | Connecting Cord | AE |
| 5-11 | XBPS726P05J00 | J | Screw, x3 | AA |
| 6 | GCOVAA984WJKA | S | Bass-Conne Cover | AD |
| 7 | LCHSMA146WJKA | S | Chassis Frame | AR |
| 8 | LX-BZ3442CEF9 | J | Screw, x4 | AB |
| 9 | PSPAZA614WJZZ | S | Spacer, x1 | AD |
| 10 | PSPAZA615WJZZ | S | Spacer, x1 | AB |
| 11 | PSPAZA640WJKZ | S | Spacer, x1 | AL |
| 12 | PSPAZA641WJKZ | S | Spacer, x1 | AF |
| 13 | PSPAZA642WJKZ | S | Spacer, x1 | AH |
| 14 | QCNW-B813WJPZ | S | Connecting Cord | AC |
| 15 | QCNW-B814WJPZ | S | Connecting Cord | AC |
| 16 | QCNW-C853WJQZ | S | Connecting Cord | AE |
| 17 | QCNW-C948WJQZ | S | Connecting Cord | AE |
| 18 | QCNW-C949WJQZ | S | Connecting Cord | AC |
| 19 | QEARPA125WJFW | S | Grounding Part, x1 | AC |
| 20 | QEARZA041WJZZ | J | Grounding Part, x1 | AE |
| 21 | RCORFA032WJZZ | J | Core, x1 | AK |
| 22 | TLABMB271WJZZ | S | Model Label (LC-20SH1E/E(R)/E(F)/E(K)) | AE |
| 22 | TLABMB473WJZZ | S | Model Label (LC-20SH1E(I)) | |
| 23 | *Not Available* | – | Serial No. Label | — |
| 24 | VSP1104PB038A | J | Speaker, x2 | AK |
| 25 | XEBS940P20000 | J | Screw, x5 | AB |
| 26 | XEBSN30P08000 | J | Screw, x7 | AA |
| 27 | XEBSN40P10000 | J | Screw, x8 | AB |
| 28 | XHBS830P10000 | S | Screw, x2 | AA |
| 29 | XHPS730P08WS0 | S | Screw, x7 | AA |
| 30 | TLABZA792WJZZ | S | EICTA Label | AL |
| 31 | TLABSA028WJSB | J | GOST Label (LC-20SH1E(R)) | AF |

# CABINET AND MECHANICAL PARTS



## SUPPLIED ACCESSORIES

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| ⚠ X1 | QACCBA016WJPZ | J | AC Cord (LC-20SH1E(K)) | AR |
| ⚠ X1 | QACCKA006WJPZ | J | AC Cord (LC-20SH1E/E(R)/E(F)/E(I)) | AL |
| X2 | RRMCGA339WJSA | S | Wireless Remote Control | AS |
| X3 | TiNS-B517WJN2 | S | Operation Manual | |
| X4 | TiNS-B634WJN2 | S | Instruction Book (LC-20SH1E/E(F)) | |
| X5 | TiNS-B635WJN2 | S | Instruction Book (LC-20SH1E) | |
| X6 | TiNS-B636WJZZ | S | Instruction Book (LC-20SH1E(R)) | |
| X7 | TGAN-1688CEN1 | J | Guarantee Card (LC-20SH1E(K)) | AN |
| X8 | TGAN-A077WJZZ | J | Guarantee Card (LC-20SH1E(R)) | AE |
| X9 | *Not Available* | – | "AA" size Battery, x2 | — |

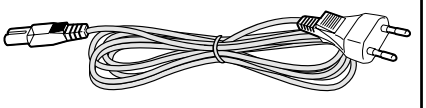
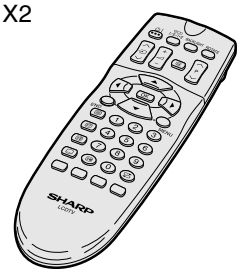
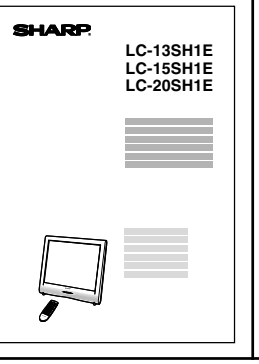
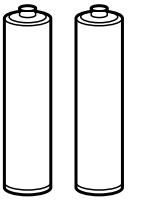
## SERVICE JIGS
### *(USE FOR SERVICING)*

| | | | | |
|---|---|---|---|---|
| | QCNW-A553WJZZ | J | Extension Cable, 30-pin (SC1203-LCD) | BA |
| | QCNW-A556WJZZ | J | Extension Cable, 50-pin (SC1202-LCD) | AU |
| | QCNW-A555WJZZ | J | Extension Cable, 20-pin (SC1201-LCD) | AU |
| | QCNW-D444WJQZ | J | Extension Cable, 5-pin (SC4201-SC105) | AQ |
| | QCNW-D445WJQZ | J | Extension Cable, 8-pin (SC4001-SC3601) | AQ |
| | JiGiNF-001 | J | Parallel Part-IIC Interface Jig | CC |

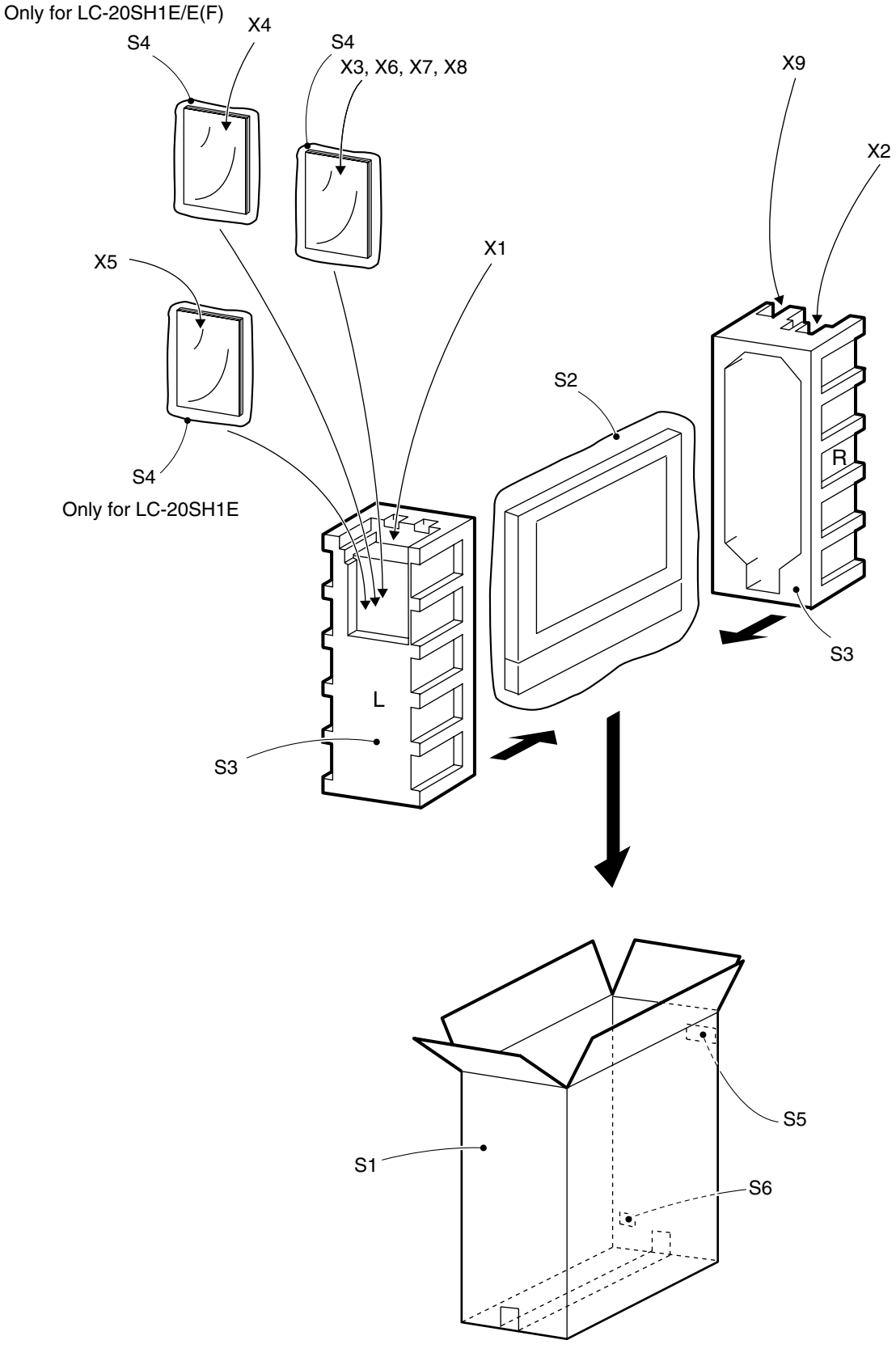
## PACKING PARTS
### *(NOT REPLACEMENT ITEM)*

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| S1 | SPAKCB640WJZZ | – | Packing Case | — |
| S2 | SPAKPA188WJZZ | – | Wrapping Paper | — |
| S3 | SPAKXA620WJZZ | – | Buffer Material | — |
| S4 | SSAKAA010WJZZ | – | Polyethylene Bag (E(R)/E(K)/E(I)x1, E(F)x2, Ex3) | — |
| S5 | TLABKA002WJZZ | – | Carton Label, x1 | — |
| S6 | TLABSA029WJZZ | – | GOST Label (LC-20SH1E(R)) | — |

**Supplied Accessories**

| AC cord | Wireless remote control | Operation manual | "AA" size batteries (×2) |
|---|---|---|---|
| X1  *Product shape may vary from country to country. | X2  | X3   | X9  |

# PACKING OF THE SET



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